



IBM C400 PROJECTOR

User's Guide



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Poznámka: Before using this information and the product it supports, read the information in and Priloha E, "IBM Statement of Limited Warranty Z125-4753-08 04/2004", na strane E-1.

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Safety information

Before installing this product, read the Safety Information.

مج، يجب قراءة دات السلامة

Antes de instalar este produto, leia as Informações de Segurança.

在安装本产品之前，请仔细阅读 **Safety Information** (安全信息)。

Prije instalacije ovog produkta obavezno pročitajte Sigurnosne Upute.

Před instalací tohoto produktu si přečtěte příručku bezpečnostních instrukcí.

Læs sikkerhedsforskrifterne, før du installerer dette produkt.

Ennen kuin asennat tämän tuotteen, lue turvaohjeet kohdasta Safety Information.

Avant d'installer ce produit, lisez les consignes de sécurité.

Vor der Installation dieses Produkts die Sicherheitshinweise lesen.

Πριν εγκαταστήσετε το προϊόν αυτό, διαβάστε τις πληροφορίες ασφάλειας (safety information).

לפני שתתקינו מוצר זה, קראו את הוראות הבטיחות.

A termék telepítése előtt olvassa el a Biztonsági előírásokat!

Prima di installare questo prodotto, leggere le Informazioni sulla Sicurezza.

製品の設置の前に、安全情報をお読みください。

본 제품을 설치하기 전에 안전 정보를 읽으십시오.

Пред да се инсталира овој продукт, прочитајте информацијата за безбедност.

Lees voordat u dit product installeert eerst de veiligheidsvoorschriften.

Les sikkerhetsinformasjonen (Safety Information) før du installerer dette produktet.

Przed zainstalowaniem tego produktu, należy zapoznać się z książką "Informacje dotyczące bezpieczeństwa" (Safety Information).

Antes de instalar este produto, leia as Informações sobre Segurança.

Перед установкой продукта прочтите инструкции по технике безопасности.

Pred inštaláciou tohto produktu si prečítajte bezpečnostné informácie.

Pred namestitvijo tega proizvoda preberite Varnostne informacije.

Antes de instalar este producto lea la información de seguridad.

Läs säkerhetsinformationen innan du installerar den här produkten.

安裝本產品之前，請先閱讀「安全資訊」。

General safety guidelines

Always observe the following precautions to reduce the risk of injury and property damage.

Service

Do not attempt to service a product yourself unless instructed to do so by the IBM Support Center. Use only an IBM authorized service provider who is approved to repair your particular product.

Note: Some parts can be upgraded or replaced by the customer. These parts are referred to as Customer Replaceable Units, or CRUs. IBM expressly identifies CRUs as such, and provides documentation with instructions when it is appropriate for customers to replace those parts. You must closely follow all instructions when performing such replacements. Always make sure that the power is turned off and that the product is unplugged from any power source before you attempt the replacement. If you have any questions or concerns, contact the IBM Support Center.

Power cords and power adapters

Use only the power cords and power adapters supplied by the product manufacturer.

Never wrap a power cord around the power adapter or other object. Doing so can stress the cord in ways that can cause the cord to fray, crack or crimp. This can present a safety hazard.

Always route power cords so that they will not be walked on, tripped over, or pinched by objects.

Protect the cord and power adapters from liquids. For instance, do not leave your cord or power adapter near sinks, tubs, toilets, or on floors that are cleaned with liquid cleansers. Liquids can cause a short circuit, particularly if the cord or power adapter has been stressed by misuse. Liquids can also cause gradual corrosion of the power cord terminals and/or the connector terminals on the adapter which can eventually result in overheating.

Always connect power cords and signal cables in the correct order and ensure that all power cord connectors are securely and completely plugged into receptacles.

Do not use any power adapter that shows corrosion at the ac input pins and/or shows signs of overheating (such as deformed plastic) at the ac input or anywhere on the power adapter.

Do not use any power cords where the electrical contacts on either end show signs of corrosion or overheating or where the power cord appears to have been damaged in any way.

Extension cords and related devices

Ensure that extension cords, surge protectors, uninterruptible power supplies, and power strips that you use are rated to handle the electrical requirements of the product. Never overload these devices. If power strips are used, the load should not exceed the power strip input rating. Consult an electrician for more information if you have questions about power loads, power requirements, and input ratings.

Plugs and outlets

If a receptacle (power outlet) that you intend to use with your computer equipment appears to be damaged or corroded, do not use the outlet until it is replaced by a qualified electrician.

Do not bend or modify the plug. If the plug is damaged, contact the manufacturer to obtain a replacement.

Some products are equipped with a three-pronged plug. This plug fits only into a grounded electrical outlet. This is a safety feature. Do not defeat this safety feature by trying to insert it into a non-grounded outlet. If you cannot insert the plug into the outlet, contact an electrician for an approved outlet adapter or to replace the outlet with one that enables this safety feature. Never overload an electrical outlet. The overall system load should not exceed 80 percent of the branch circuit rating. Consult an electrician for more information if you have questions about power loads and branch circuit ratings.

Be sure that the power outlet you are using is properly wired, easily accessible, and located close to the equipment. Do not fully extend power cords in a way that will stress the cords.

Connect and disconnect the equipment from the electrical outlet carefully

Batteries

All IBM personal computers contain a non-rechargeable coin cell battery to provide power to the system clock. In addition many mobile products such as Thinkpad notebook PCs utilize a rechargeable battery pack to provide system power when in portable mode. Batteries supplied by IBM for use with your product have been tested for compatibility and should only be replaced with IBM approved parts.

Never attempt to open or service any battery. Do not crush, puncture, or incinerate batteries or short circuit the metal contacts. Do not expose the battery to water or other liquids. Only recharge the battery pack strictly according to instructions included in the product documentation.

Battery abuse or mishandling can cause the battery to overheat, which can cause gasses or flame to “vent” from the battery pack or coin cell. If your battery is damaged, or if you notice any discharge from your battery or the buildup of foreign materials on the battery leads, stop using the battery and obtain a replacement from the battery manufacturer.

Batteries can degrade when they are left unused for long periods of time. For some rechargeable batteries (particularly Lithium Ion batteries), leaving a battery unused in a discharged state could increase the risk of a battery short circuit, which could shorten the life of the battery and can also pose a safety hazard. Do not let rechargeable Lithium-Ion batteries completely discharge or store these batteries in a discharged state.

Heat and product ventilation

Computers generate heat when turned on and when batteries are charging. Notebook PCs can generate a significant amount of heat due to their compact size. Always follow these basic precautions:

- Do not leave the base of your computer in contact with your lap or any part of your body for an extended period when the computer is functioning or when the battery is charging. Your computer produces some heat during normal operation. Extended contact with the body could cause discomfort or, potentially, a skin burn.

- Do not operate your computer or charge the battery near flammable materials or in explosive environments.
- Ventilation slots, fans and/or heat sinks are provided with the product for safety, comfort, and reliable operation. These features might inadvertently become blocked by placing the product on a bed, sofa, carpet, or other flexible surface. Never block, cover or disable these features.

CD and DVD drive safety

CD and DVD drives spin discs at a high speed. If a CD or DVD is cracked or otherwise physically damaged, it is possible for the disc to break apart or even shatter when the CD drive is in use. To protect against possible injury due to this situation, and to reduce the risk of damage to your machine, do the following:

- Always store CD/DVD discs in their original packaging
- Always store CD/DVD discs out of direct sunlight and away from direct heat sources
- Remove CD/DVD discs from the computer when not in use
- Do not bend or flex CD/DVD discs, or force them into the computer or their packaging
- Check CD/DVD discs for cracks before each use. Do not use cracked or damaged discs

Registering your option

Thank you for purchasing this IBM® product. Please take a few moments to register your product and provide us with information that will help IBM to better serve you in the future. Your feedback is valuable to us in developing products and services that are important to you, as well as in developing better ways to communicate with you. Register your option on the IBM Web site at

<http://www.ibm.com/pc/register/>

IBM will send you information and updates on your registered product unless you indicate on the Web site questionnaire that you do not want to receive further information.

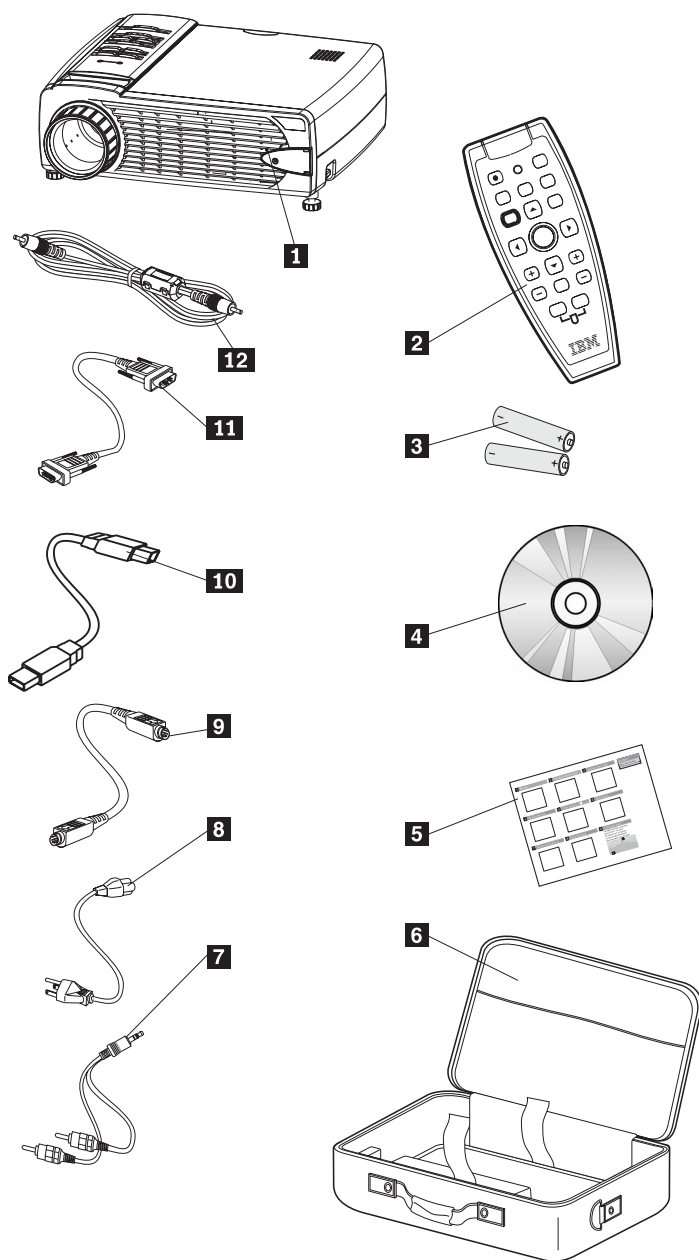
Kapitola 1. Opis produktu

Projektor IBM C400 PROJECTOR premieta jasný a kvalitný obraz, ktorý vám umožňuje vykonávať prezentácie na profesionálnej úrovni. C400 je ľahký a kompaktný čo do veľkosti, preto je riešením pre veľké oddelenia a môžete ho jednoducho prenášať zo zasadačky do konferenčnej miestnosti alebo ho vziať so sebou k zákazníkom. Niektoré hlavné charakteristiky tohto projektora sú:

- Pri váhe 3,1 kg (6,8 libry) je mimoriadne výkonný, ľahký a prenosný.
- Ostré a čisté obrazy s vysokým pomerom kontrastu, ktorý je 1200:1
- Správa majetku: Diaľkovo kontrolujte stav vášho projektora C400 PROJECTOR prostredníctvom webového prehliadača (heslo je chránené), cez pripojenie RJ-45 (životnosť lampy a technický stav) alebo nechajte projektor poslať aktívny e-mail vášmu správcovi projektora.
- Krásna reprodukcia vysoko kvalitných obrazov z vášho PC a iných médiových zdrojov (napr. DVD prehrávač).

Kontrolný zoznam balenia

Okrem tejto užívateľskej príručky váš balík obsahuje nasledujúce položky:



Obrázok 1-1. Štandardné príslušenstvo

- 1** Projektor
- 2** Diaľkový ovládač
- 3** Batérie
- 4** CD s užívateľskou príručkou (a pre inštaláciu)
- 5** Viacjazyčná príručka k rýchlemu štartu
- 6** Prenosný kufrík
- 7** Audio kábel (Mini Jack- RCA)
- 8** Napájací kábel
- 9** Video kábel (S-video)
- 10** USB kábel (USB-Mini USB)

11 Kábel k počítaču (DVI-I)

12 Video kábel (RCA- RCA)

Ak niektorá z uvedených položiek chýba alebo je poškodená, kontaktujte miesto nákupu.

Poznámka: Nezabudnite si uschovať doklad o kúpe, bude potrebný pre získanie záručného servisu.

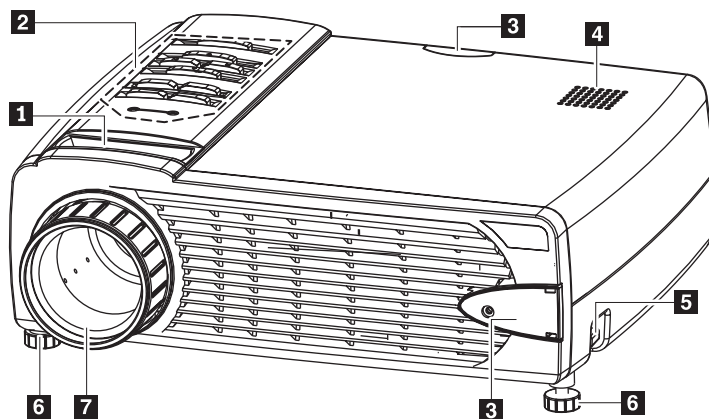
Informácie o voliteľnej výbave pre váš projektor nájdete na <http://www.ibm.com>.

Dôležité:

- Nepoužívajte projektor v prašnom prostredí
- Pred odložením do prenosného kufriku nechajte napájací kábel zapojený 2-5 minút, pokiaľ projektor nedosiahne izbovú teplotu. Priskoré vloženie projektor do kufriku po vypnutí napájania by mohlo spôsobiť prehriatie projektor a skrátenie životnosti lampy.
- Nezabudnite pripojiť kryt objektívu a vložte projektor do kufriku objektívom smerom hore, aby ste predišli poškodeniu objektívu.

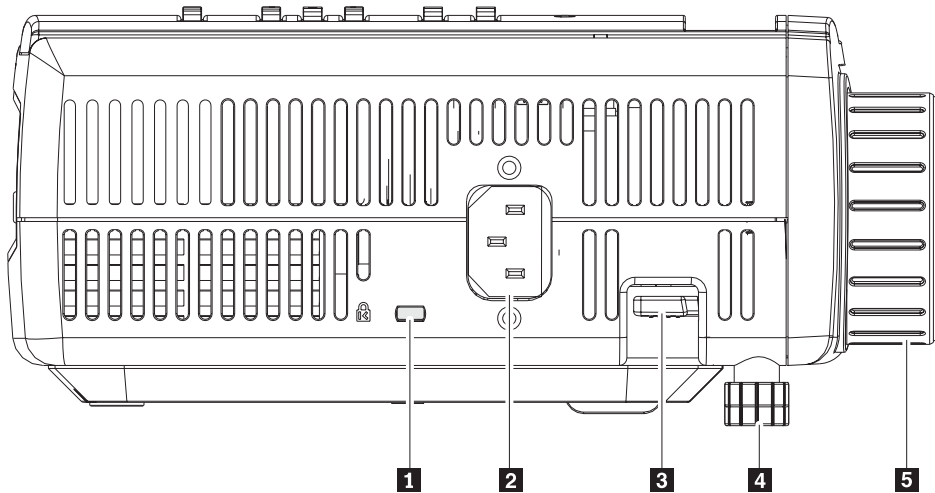
Zobrazenie projektor

Na doleuvedených obrázkoch sú zobrazené rôzne pohľady na projektor a vybavenie projektor.



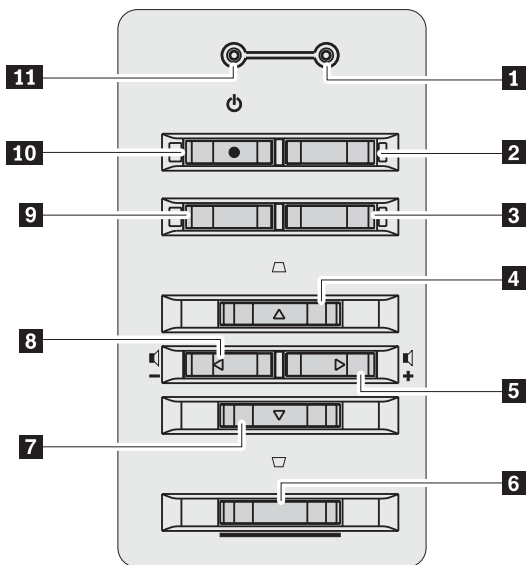
Obrázok 1-2. Čelný pohľad na projektor

- 1** Zväčšenie
- 2** Tlačidlá OSD (On-Screen Display) a svetelné diódy LED
- 3** Prijímač diaľkového ovládača (IR)
- 4** Reproduktor
- 5** Tlačidlo regulátora nožičky na nastavenie výšky
- 6** Nožička na nastavenie výšky
- 7** Zaostrovací krúžok



Obrázok 1-3. Bočný pohľad na projektor

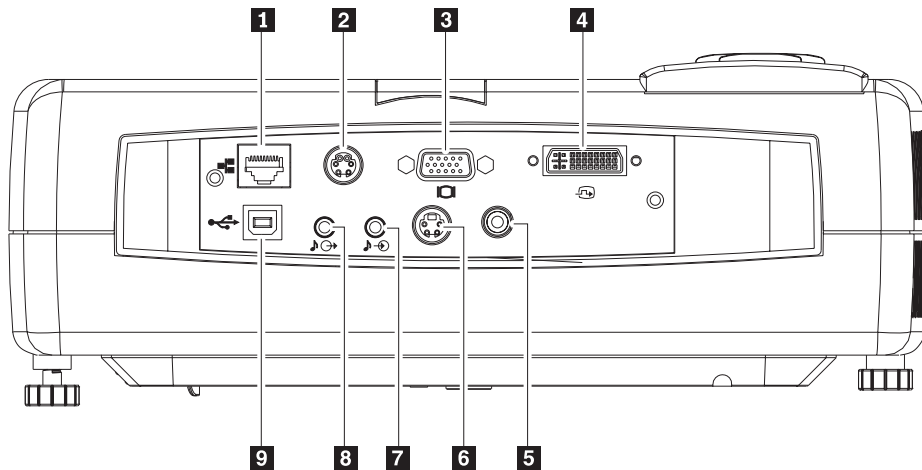
- 1** Otvor pre bezpečnostný zámok
- 2** Elektrická zásuvka
- 3** Tlačidlo regulátora nožičky na nastavenie výšky
- 4** Nožička na nastavenie výšky
- 5** Zaostrovací krúžok



Obrázok 1-4. Tlačidlá OSD a kontrolky LED

- 1** LED, indikujúca pripravenosť
- 2** Tlačidlo Source
- 3** Tlačidlo Enter
- 4** Tlačidlo Keystone/Up cursor
- 5** Tlačidlo Volume/right cursor
- 6** Tlačidlo Menu

- 7** Tlačidlo Keystone/Down cursor
- 8** Tlačidlo Volume/left cursor
- 9** Tlačidlo Auto
- 10** Tlačidlo Power
- 11** LED, indikujúca napájanie



Obrázok 1-5. Zadný pohľad na projektor

1 LAN (Local Area Network) RJ-45

2 RS-232

Poznámka: Toto je servisný port a nie je určený na bežné používanie.

3 Výstup pre monitor

4 DVI-I

5 Kompozitné video

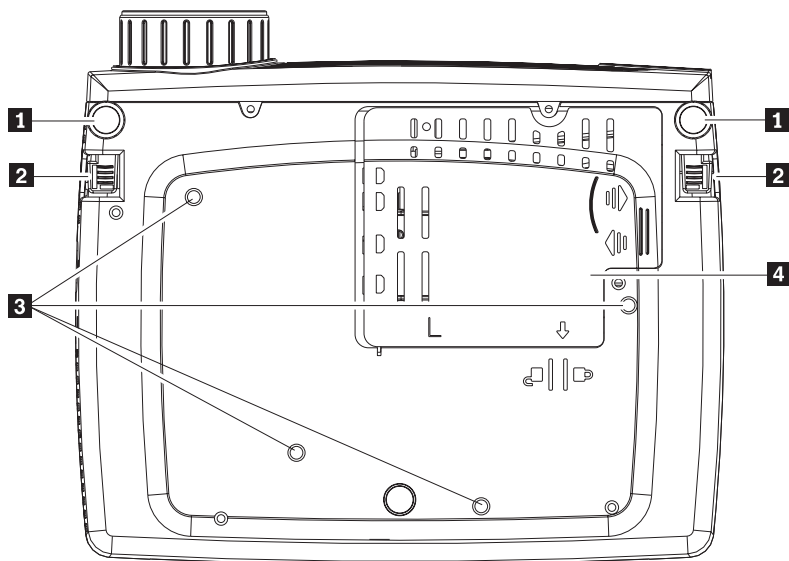
6 S-video

Poznámka: Ak vybavenie vášho videa obsahuje konektory S-video aj RCA (kompozitné video), optimálnu kvalitu signálu dosiahnete pripojením ku konektoru S-video.

7 Audio vstup

8 Audio výstup

9 USB



Obrázok 1-6. Spodný pohľad na projektor

- 1** Predná nožička na nastavenie výšky
- 2** Tlačidlá regulátora nožičky na nastavenie výšky
- 3** Podporné otvory na upevnenie k stropu
- 4** Kryt projekčnej lampy

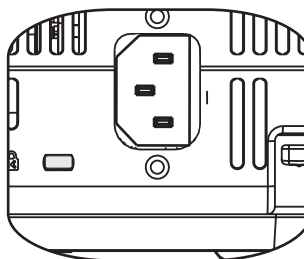
Kapitola 2. Nastavovanie projektora

V tejto kapitole nájdete informácie o polohovaní projektora, pripojení počítačového zdroja a zobrazovaní a nastavovaní obrazu.

Spustenie projektora

Pri spúšťaní projektora postupujte nasledovne:

1. Do projektora zapojte napájací kábel podľa nasledujúceho obrázka. Druhý koniec kábla zapojte do elektrickej zásuvky. Zapnú sa indikátory LED, signalizujúce Napájanie a Lampa pripravená.



2. Odstráňte kryt objektívu.
3. Pripojte vstupné zariadenia.
4. Zapnite pripojené vstupné zariadenia.
5. Skontrolujte, či je LED, indikujúca napájanie zapnutá (oranžovožltá a neblíká) a stlačením tlačidla **Power** projektor zapnite.

Otvorí sa okno obrazovky projektora a projektor zisťuje pripojené zariadenia. Ak ste projektor pripojili k počítaču IBM, na počítači stlačte klávesy Fn+F7, čím prepnete výstup z obrazovky na projektor. Ak ste projektor pripojili k inému počítaču ako IBM, pozrite si dokumentáciu, dodanú s vaším počítačom, kde nájdete informácie o tom, ako postupovať pri zmene výstupu z obrazovky.

Upozornenie: Keď zapínate lampu, nepozerajte priamo do projekčnej šošovky. Ostré svetlo môže poškodiť váš zrak.

6. Ak ste k projektoru pripojili viac ako jedno vstupné zariadenie, prepnutím tlačidla **Source** zmeňte zariadenia. (DVD a HDTV sú podporované cez konektor kábla DVI-I.)
7. Informácie o vypínaní projektora nájdete v “Vypnutie projektora”.

Upozornenie: Pred presúvaním projektora ho normálne vypnite a odpojte z hlavného napájacieho zdroja. Viac informácií o manuálnom vypínaní projektora nájdete v “Vypnutie projektora”.

Vypnutie projektora

Pri vypínaní projektora postupujte nasledovne:

1. Stlačte tlačidlo **Power**.

Projektor sa pripraví na vypnutie a zobrazí sa správa **Wait a moment** - pozrite nižšie. Projektor sa vypne automaticky do 5 sekúnd.



Poznámka: Táto operácia môže byť zrušená stlačením iného tlačidla ako je tlačidlo **Power**. Opätovným stlačením tlačidla **Power** sa vypne napájanie.

Poznámka: Pred odložením do prenosného kufríka nechajte napájaci kábel zapojený 2-5 minút, pokiaľ projektor nedosiahne izbovú teplotu. Uloženie projektoru do kufríka príliš skoro po vypnutí napájania môže mať za následok jeho prehriatie.

2. Po zobrazení správy **Power Off?/Press Power again** stlačte tlačidlo **Power** - pozrite nižšie.



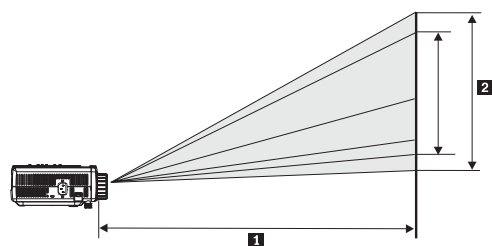
Projektor sa vypne.

Nastavovanie polohy projektoru

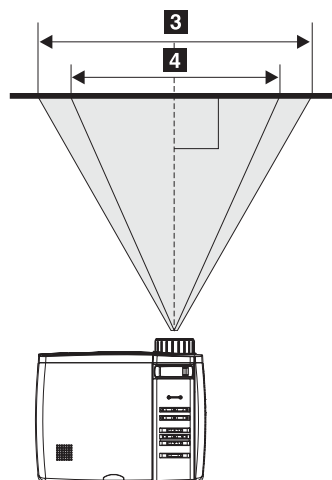
Ak chcete určiť, kde máte projektor umiestniť, vezmite do úvahy veľkosť a tvar vašej projekčnej obrazovky, umiestnenie elektrických zásuviek a vzdialenosť medzi projektorom a ďalšími zariadeniami. Uvádžame niekoľko všeobecných pokynov:

- Projektor umiestnite na plochý povrch v pravom uhle k obrazovke. Projektor musí byť aspoň 1,5 m (4,9 stopy) od projekčnej obrazovky.
- Umiestnite projektor do vzdialenosti do 2,7 m (9 stôp) od zdroja napájania a do 1,8 m (6 stôp) od video zariadenia (pokiaľ nepoužívate predlžovacie káble). Aby ste zabezpečili prístup ku káblom, neumiestňujte projektor bližšie ako 0,15 m (6 palcov) od steny alebo iného objektu.
- Projektor umiestnite v požadovanej vzdialenosti od projekčnej obrazovky. Veľkosť premietaného obrazu je daná vzdialenosťou objektívu projektoru od plátna, nastavením zväčšenia a formátom videa.

Upozornenie: Zabezpečte, aby prívod vzduchu do projektoru bol dostatočný, nebol blokovaný, alebo aby sa nepoužíval recirkulovaný vzduch. Rovnako zabezpečte, aby sa projektor nenachádzal v obmedzenom priestore.



Obrázok 2-1. Výška obrazu



Obrázok 2-2. Šírka obrazu

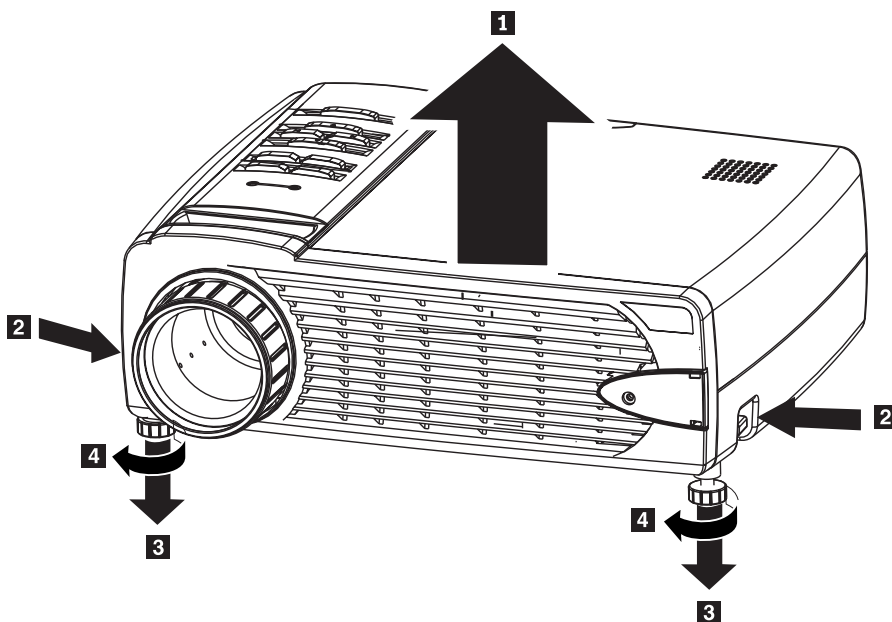
Tabuľka 2-1.

Vzdialenosť projekcie 1 (m/stopy)	Šírka obrazu 2 (m/palce)	Diagonálna veľkosť obrazu 3 (m/palce)	Výška obrazu 4 (m/palce)
1,5 m/4,92 stopy	1,1 m/42,5 palca	0,9 m/33,8 palca	0,7 m/25,6 palca
2,0 m/6,56 stopy	1,4 m/56,7 palca	1,2 m/45,3 palca	0,9 m/34,0 palca
2,4 m/7,87 stopy	1,7 m/67,7 palca	1,4 m/53,9 palca	1,0 m/40,5 palca
2,8 m/9,18 stopy	2,0 m/79,1 palca	1,6 m/62,9 palca	1,2 m/47,4 palca
3,2 m/10,5 stopy	2,3 m/90,5 palca	1,8 m/72,4 palca	1,4 m/54,3 palca
3,6 m/11,81 stopy	2,6 m/101,9 palca	2,1 m/81,5 palca	1,5 m/61,0 palca
4,0 m/13,12 stopy	2,9 m/113,4 palca	2,3 m/90,6 palca	1,7 m/68,1 palca
4,4 m/14,43 stopy	3,2 m/124,8 palca	2,5 m/99,6 palca	1,9 m/74,8 palca
4,8 m/15,74 stopy	3,5 m/135,8 palca	2,8 m/108,7 palca	2,1 m/81,6 palca
5,2 m/17,06 stopy	3,7 m/147,2 palca	3,0 m/117,7 palca	2,2 m/88,2 palca
5,6 m/18,37 stopy	4,0 m/158,7 palca	3,2 m/126,8 palca	2,4 m/95,3 palca
5,0 m/19,68 stopy	4,3 m/170,1 palca	3,5 m/135,8 palca	2,6 m/101,9 palca
10,0 m/32,8 stopy	7,2 m/283,5 palca	5,8 m/226,8 palca	4,3 m/170,1 palca

Pripôsobenie úrovne a výšky projektoru

Keď chcete upraviť úroveň a výšku projektoru, postupujte podľa tejto procedúry:

1. Ak chcete projektor zvýšiť, nadvihnite ho **1** a stlačte tlačidlá regulátora výšky **2**. Vysunie sa nožička na nastavovanie výšky **3**.
2. Ak chcete robiť len menšie úpravy výšky, otáčajte nožičku na nastavovanie výšky **4** - pozrite nižšie.
3. Na zníženie úrovne projektoru stlačte tlačidlo na nastavenie výšky a zatlačte vrch projektoru smerom dole.



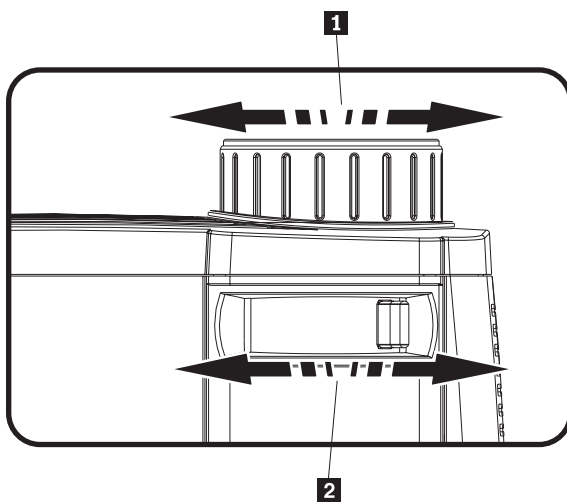
Poznámka:

- Stôl alebo podstavec projektoru by mali byť rovné a stabilné.
- Projektor umiestnite tak, aby bol kolmo na projekčné plátno.
- Zabezpečte, aby sa káble *nenachádzali* na mieste, kde by mohli projektor zhodiť.

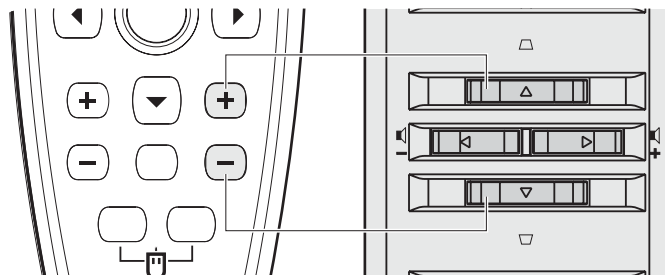
Pripôsobenie obrazu

Pri nastavovaní približovania, zaostrenia a základne obrazu postupujte nasledovne:

1. Otáčajte krúžkami na projektore, čím nastavíte zaostrenie **1** a priblíženie **2** - pozrite nižšie.



2. Na opravu efektu lichobežníkového obrazu (širší vrch alebo spodok) použite tlačidlá **Keystone** na projektore alebo na diaľkovom ovládači. Tlačidlá Keystone na diaľkovom ovládači a na projektore sú zobrazené nižšie.



Ovládač základne sa zobrazí na OSD (On Screen Display) - pozrite nižšie.



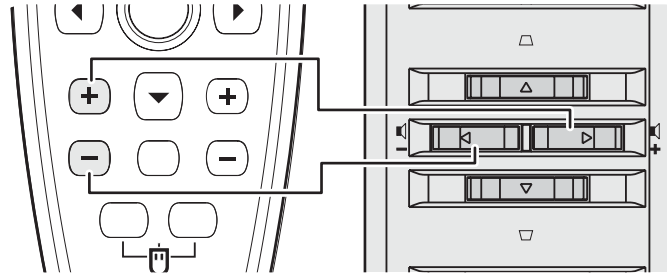
Nastavovanie hlasitosti

Pri nastavovaní hlasitosti postupujte nasledovne:

1. Stláčajte tlačidlá **Volume +/-** na projektore alebo na diaľkovom ovládači. Ovládač hlasitosti sa zobrazí na OSD.



2. Na nastavenie úrovne použite tlačidlá **Volume +/-**, zobrazené nižšie.



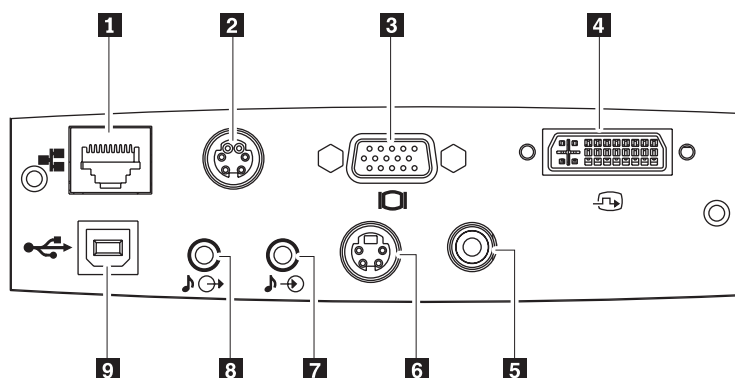
3. Keď chcete vypnúť zvuk, stlačte tlačidlo **Mute** (nachádza sa len na diaľkovom ovládači).
4. Keď chcete zrušiť stlmenie zvuku, stlačte ľubovoľné tlačidlo **Volume +/-** na projektore alebo na diaľkovom ovládači.

Kapitola 3. Pripojenie zariadení k projektoru

V tejto kapitole nájdete informácie o pripájaní zariadení k projektoru C400.

Pripojenie zariadení

K projektoru môžu byť súčasne pripojené počítače a videozariadenia. Pozrite si dokumentáciu, dodanú so zariadením, ktoré bude pripojené a skontrolujte, či toto zariadenie má príslušný výstupný konektor.



1 LAN (Local Area Network) RJ-45

2 RS-232

Poznámka: Toto je servisný port a nie je určený na bežné používanie.

3 Výstup pre monitor

4 DVI-I

5 Kompozitné video

6 S-video

Poznámka: Ak vybavenie vášho videa obsahuje konektory S-video aj RCA (kompozitné video), optimálnu kvalitu signálu dosiahnete pripojením ku konektoru S-video.

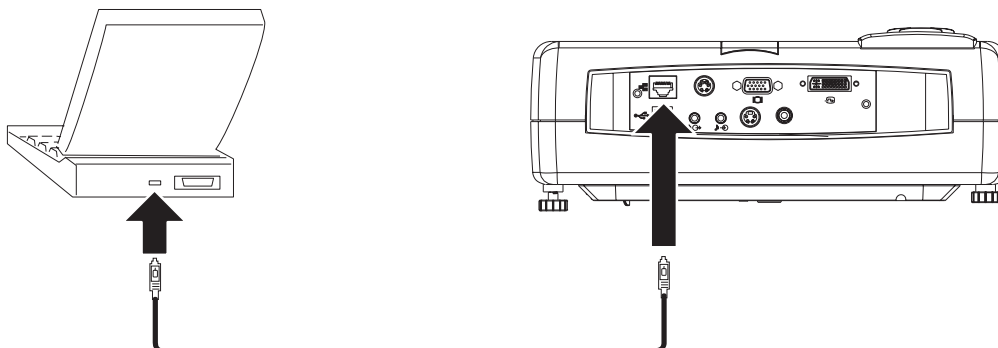
7 Audio vstup

8 Audio výstup

9 USB

Pripojenie k zariadeniu USB

Ak chcete myš vášho počítača ovládať pomocou diaľkového ovládača k projektoru, projektor pripojte k počítaču káblom USB - pozrite nižšie.



Poznámka: Funkcia myši cez USB je podporovaná len vo Windows 2000 a Windows XP.

Pripojenie k počítačovému monitoru

Ak používate stolný počítač a chcete vidieť obraz na jeho obrazovke ako aj na projekčnej obrazovke, zapojte kábel monitora do konektora výstupu pre monitor na projektore.

Kapitola 4. Používanie funkcií projektora

V tejto kapitole nájdete informácie o inštalovaní batérií do diaľkového ovládača a o používaní diaľkového ovládača, audia, tlačidiel jeho klávesnice a ďalšieho vybavenia projektora.

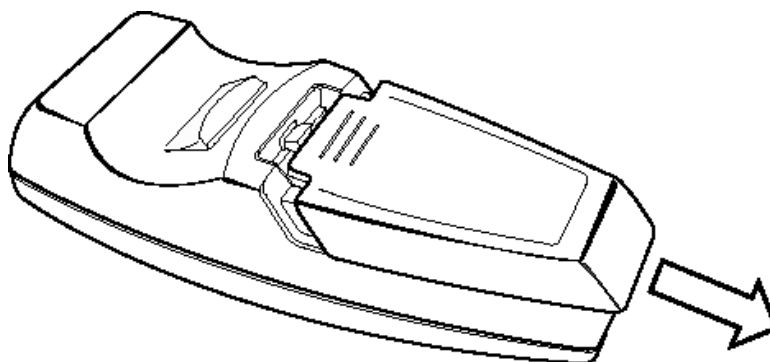
Skôr než začnete

Než začnete používať diaľkový ovládač, musíte doň nainštalovať batérie AAA, dodané s týmto projektorom. Pri inštalácii batérií postupujte nasledovne:

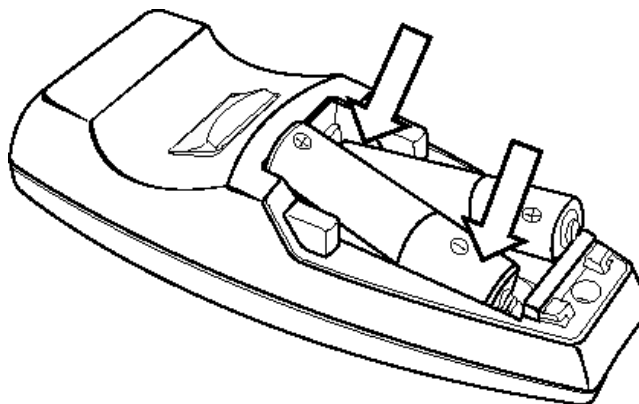
Poznámka:

- Používajte len alkalické batérie AAA.
- Použité batérie likvidujte v súlade s miestnymi predpismi.
- Ak diaľkový ovládač dlhšiu dobu nepoužívate, batérie z neho vyberte.

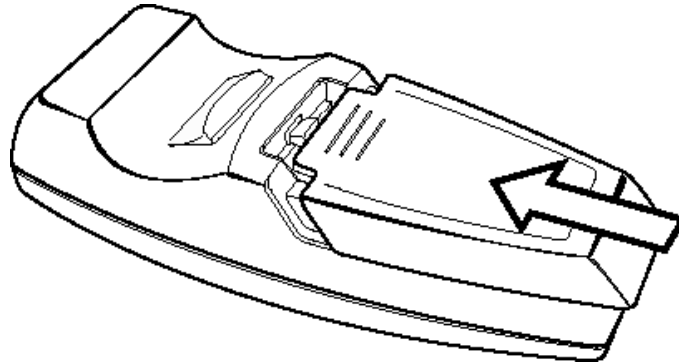
1. Z diaľkového ovládača odstráňte kryt priehradky na batérie - pozrite nižšie.



2. Do priehradky na batérie na diaľkovom ovládači vložte dodané batérie tak, aby polarita (+/-) batérií bola priradená k ikonám polarity v priehradke - pozrite nižšie.



3. Vráťte kryt, ako ukazuje obrázok.



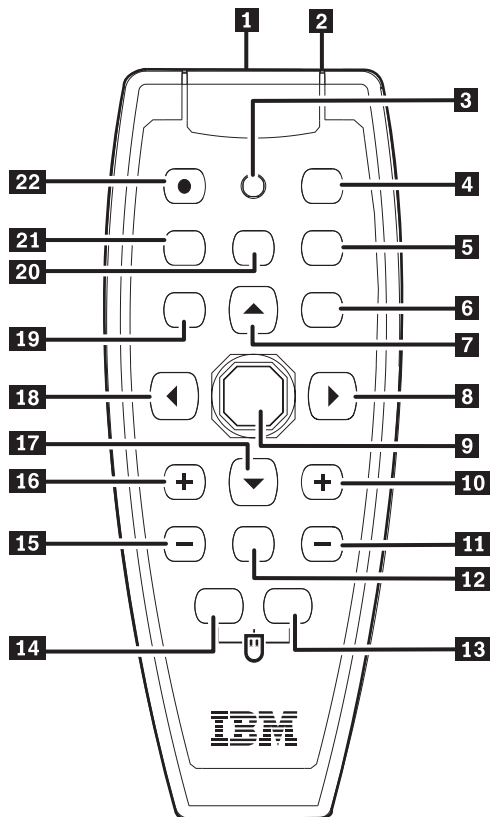
Používanie diaľkového ovládača

Nasledujúci obrázok poskytuje ilustráciu diaľkového ovládača.



POZOR:

Na zníženie rizika zranenia očí, sa nepozerajte priamo do svetla lasera diaľkového ovládača a nesmerujte laserové svetlo nikomu do očí. Diaľkový ovládač je vybavený laserom triedy II, ktorý emituje žiarenie.



- 1 Laser
- 2 IR vysielateľ
- 3 Stavová LED
- 4 Auto
- 5 Prázdny obraz
- 6 Enter
- 7 Kurzor hore
- 8 Kurzor vpravo
- 9 Kurzorový ovládač
- 10 Vrchná základňa
- 11 Spodná základňa
- 12 Stlmenie zvuku
- 13 Pravé tlačidlo myši
- 14 Ľavé tlačidlo myši
- 15 Zníženie hlasitosti
- 16 Zvýšenie hlasitosti
- 17 Kurzor dole
- 18 Kurzor vľavo
- 19 Menu
- 20 Zmrazenie
- 21 Zdroj
- 22 Napájanie

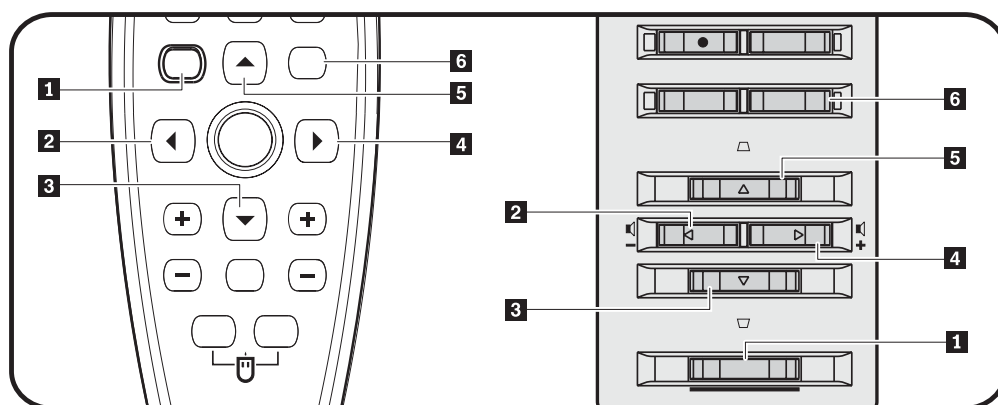
Operačný rozsah

Tento diaľkový ovládač používa na ovládanie projektoru infračervený prenos. Ovládač nie je treba nasmerovať priamo na projektor. Diaľkový ovládač bude fungovať v rámci maximálneho dosahu 10m (32,8 stopy) a 30° nad alebo pod úroveň projektoru. Ak projektor nereaguje na diaľkový ovládač, pozrite si Príloha B, “Odstraňovanie problémov”, na strane B-1.

Poznámka: Diaľkový ovládač bude pracovať aj v prípade, že ho nasmerujete na premietaný obraz.

Tlačidlá na projektore a diaľkovom ovládači

Projektor môžete ovládať pomocou diaľkového ovládača alebo tlačidiel navrchu projektoru. S diaľkovým ovládačom môžu byť vykonávané všetky operácie. Nasledujúci obrázok ukazuje príslušné tlačidlá na diaľkovom ovládači a na projektore pre operácie menu OSD.



- 1** Menu
- 2** Tlačidlo Vľavo
- 3** Tlačidlo Dole
- 4** Tlačidlo Vpravo
- 5** Tlačidlo Hore
- 6** Tlačidlo Enter

Kapitola 5. Používanie ponuky OSD

Tento projektor má menu OSD (On-Screen Display), ktoré vám umožňuje upravovať obraz a meniť rôzne nastavenia.

Poznámka: Na prístup k OSD musíte mať obrazovku premietanú na plátne.

Pohyb v OSD

Na pohyb a vykonanie zmien v OSD môžete použiť diaľkový ovládač alebo tlačidlá navrchu projektoru. Nasledujúce časti zobrazujú ponuky v OSD.

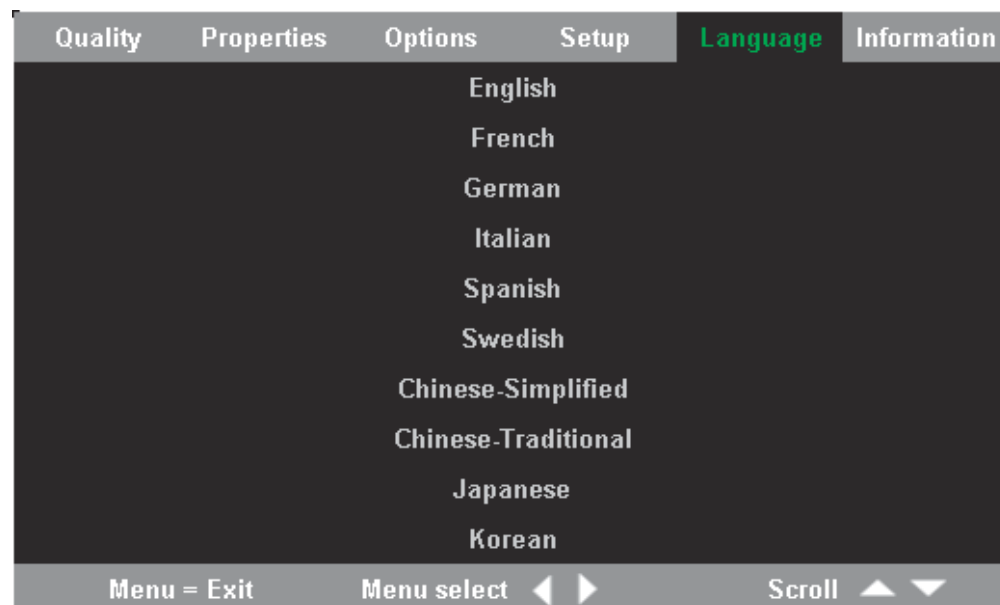
Language

Pri nastavovaní jazyka OSD postupujte nasledovne:

Poznámka: Štandardným jazykom OSD je angličtina.

1. Stlačte tlačidlo **Menu**. Zobrazí sa ponuka Language.
2. Stláčajte tlačidlá na pohyb kurzorom doľava/doprava, kým sa nezvýrazní Language.
3. Stáčajte tlačidlá na pohyb kurzorom nahor/nadol, kým sa nezvýrazní vami požadovaný jazyk
4. Stlačte tlačidlo **Enter** a vyberte jazyk.
5. Stlačte dvakrát tlačidlo **Menu** na zatvorenie OSD.

Na obrázku nižšie je zobrazená ponuka Language. Štandardným jazykom je angličtina.

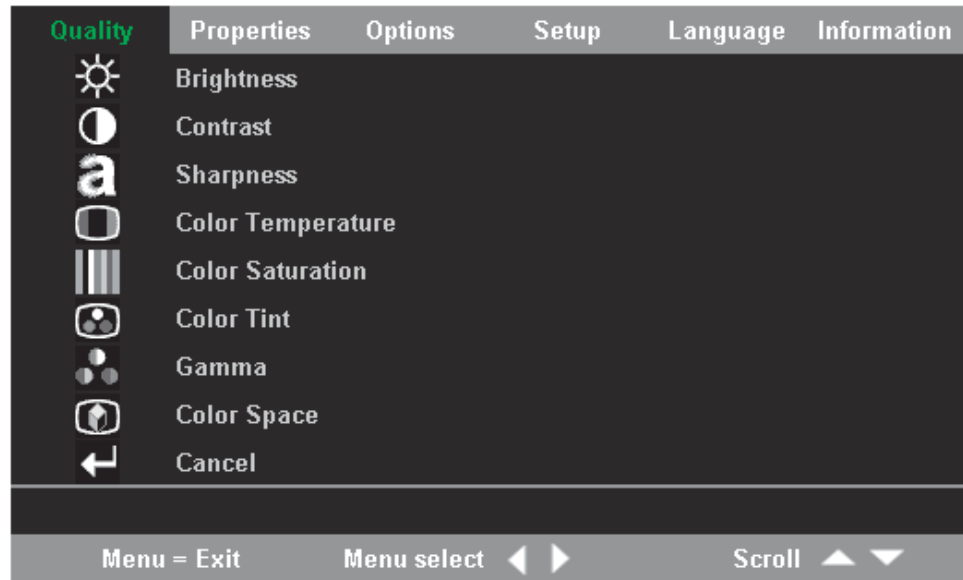


Ponuka Quality

Ponuku Quality nájdete v hlavnej ponuke. Na prístup do ponuky Quality vykonajte nasledujúce kroky:

1. Stlačte tlačidlo **Menu**, aby sa otvorila hlavná ponuka.
2. Na presun do ponuky Quality použite tlačidlo na pohyb kurzorom doľava/doprava.

3. Na pohyb smerom hore/dole v ponuke Quality použite tlačidlá kurzora hore/dole. Ponuka Quality je zobrazená nižšie.



Nasledujúca tabuľka obsahuje voľby, ktoré uvidíte v ponuke Quality a ich predvolené hodnoty.

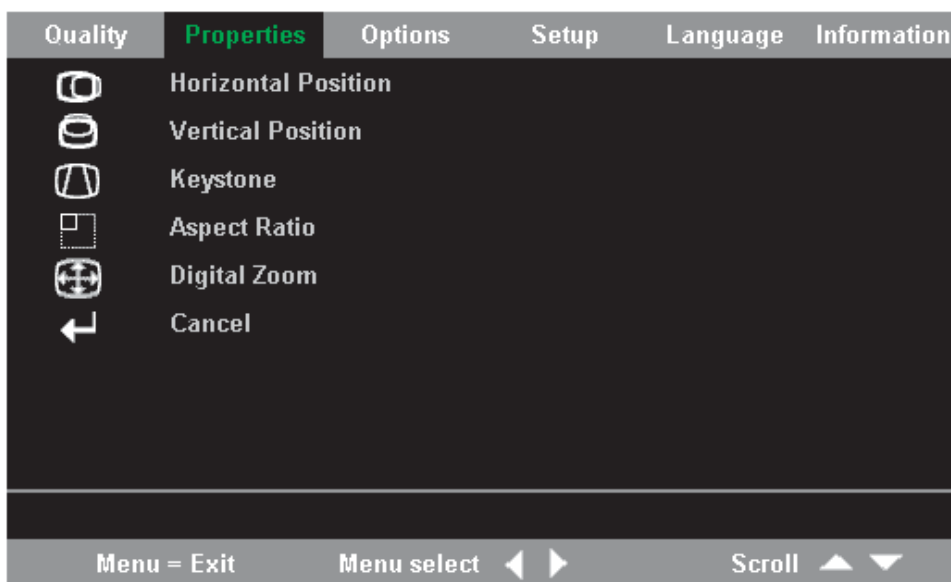
Položka	Opis	Predvolená hodnota
Brightness	Na úpravu jasu použite tlačidlá pohybu kurzora doľava/doprava. Rozsah: 0 až 100	50
Contrast	Na úpravu kontrastu použite tlačidlá pohybu kurzora doľava/doprava. Rozsah: 0 až 100	50
Sharpness	Na úpravu ostrosti obrazu použite tlačidlá pohybu kurzora doľava/doprava. Rozsah: 1 až 5	3
Color Temperature	Na úpravu farebného odtieňa videa použite tlačidlá pohybu kurzora doľava/doprava. Rozsah: Cool/Normal/Warm	Normal
Color Saturation	Na úpravu saturácie videa použite tlačidlá pohybu kurzora doľava/doprava. Rozsah: 0 až 100	50
Color Tint	Na úpravu farebného odtieňa videa použite tlačidlá pohybu kurzora doľava/doprava. Rozsah: 0 až 100	50

Položka	Opis	Predvolená hodnota
Gamma	Na úpravu gama korekcie použite tlačidlá pohybu kurzora doľava/doprava. Input/Gamma/Brightness: PC/2.2/High, MAC/1.8/High, Video/2.4/Low, Chart/2.2/Low, B&W/2.4/High	PC
Color Space	Na úpravu rozloženia farieb použite tlačidlá pohybu kurzora doľava/doprava. Rozsah: Auto/RGB/YpbPr/YCbCr	Auto
Cancel	Na vynulovanie volieb Brightness, Contrast, Sharpness, Color Temperature, Color Saturation, Color Tint, Gamma a Color Space na predvolené hodnoty použite tlačidlo Enter.	Nedá sa aplikovať

Ponuka Properties

Ponuku Properties nájdete v hlavnej ponuke. Na prístup do ponuky Properties vykonajte nasledujúce kroky:

1. Stlačte tlačidlo **Menu**, aby sa otvorila hlavná ponuka.
2. Na presun do ponuky Properties použite tlačidlo na pohyb kurzorom doľava/doprava.
3. Na posúvanie nahor a nadol v ponuke Properties použite tlačidlo na pohyb kurzorom nahor/nadol. Ponuka Properties je zobrazená nižšie.



Nasledujúca tabuľka obsahuje voľby, ktoré uvidíte v ponuke Properties a ich predvolené hodnoty.

Položka	Opis	Predvolená hodnota
Horizontal position	Na posun obrazu doľava alebo doprava použite tlačidlá kurzora doľava/doprava. Rozsah: 0 až 100	50
Vertical position	Na posun obrazu hore alebo dole použite tlačidlá kurzora doľava/doprava. Rozsah: 0 až 100	50
Keystone	Na opravu skreslenia premietaného obrazu použite tlačidlá kurzora doľava/doprava. Rozsah: -50 to 50	0
Aspect Ratio	Na prepínanie medzi štandardným formátom 4:3 a formátom HDTV (High Definition TV) 16:9 použite tlačidlo na pohyb kurzorom doľava/doprava. Rozsah: 4,3/16,9	4:3
Digital Zoom	Na zväčšenie alebo zmenšenie veľkosti obrazu použite tlačidlo Enter.	Nedá sa aplikovať
Cancel	Na vynulovanie volieb Aspect ratio a Digital Zoom na predvolené hodnoty použite tlačidlo Enter.	Nedá sa aplikovať

Ponuka Options

Na prístup do ponuky Options vykonajte nasledujúce kroky:

1. Na otvorenie hlavnej ponuky použite tlačidlo Menu.
2. Na presun do ponuky Options použite tlačidlo na pohyb kurzorom doľava/doprava.
3. Na posúvanie nahor a nadol v ponuke Options použite tlačidlo na pohyb kurzorom nahor/nadol. Ponuka Options je zobrazená nižšie.



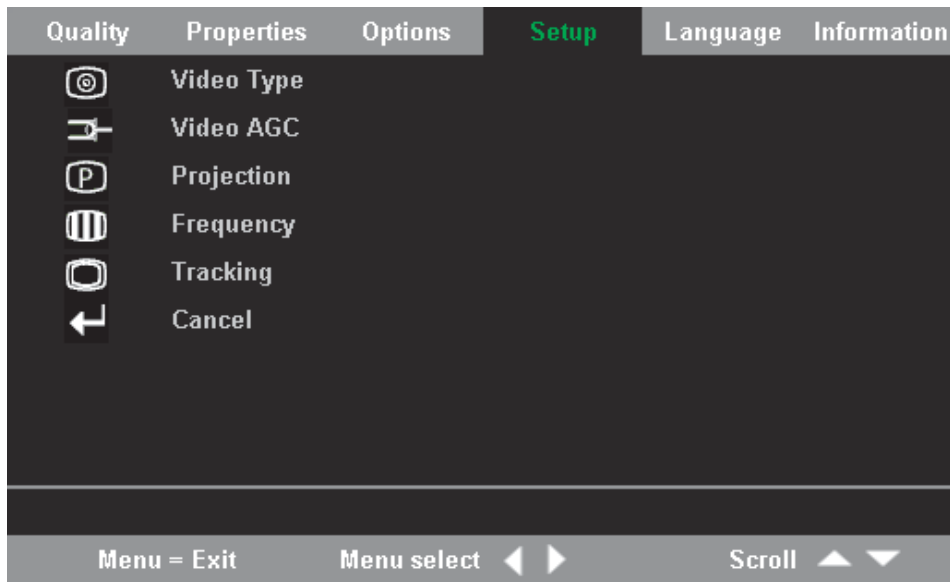
Nasledujúca tabuľka obsahuje voľby, ktoré uvidíte v ponuke Options a ich predvolené hodnoty.

Položka	Opis	Predvolená hodnota
Blank Screen	Na výber farby pozadia pre prázdnu obrazovku použite tlačidlá kurzora doľava/doprava. Rozsah: Black/Red/Green/Blue/White	Modrá
Auto Source	Na povolenie alebo zakázanie automatického zistenia zdroja použite tlačidlá kurzora doľava/doprava. Rozsah: Zap/Vyp	Zap
Auto Power Off	Na deaktivovanie automatického vypnutia lampy po 10 minútach neaktivity použite tlačidlo na pohyb kurzorom doľava/doprava. Rozsah: Zap/Vyp	Vyp
Volume	Na nastavenie hlasitosti audia použite tlačidlo na pohyb kurzorom doľava/doprava. Rozsah: 0 - 8	4
Menu Position	Na zmenu pozície OSD na obrazovke použite tlačidlá kurzora doľava/doprava. Rozsah: Left/Right/Center/Down/Up	V strede
Menu Display	Na určenie časového limitu zobrazenia OSD použite tlačidlá kurzora doľava/doprava. Rozsah: 10-30 sekúnd	15 sekúnd
Translucent Menu	Na nastavenie priesvitnosti obrazovky s ponukami použite tlačidlo na pohyb kurzorom nahor/nadol. Rozsah: Zap/Vyp	Vyp
Cancel	Voľby Auto Power-Off, Volume, Menu Position, Menu Display a Translucent Menu vynuluje na predvolené hodnoty.	Nedá sa aplikovať

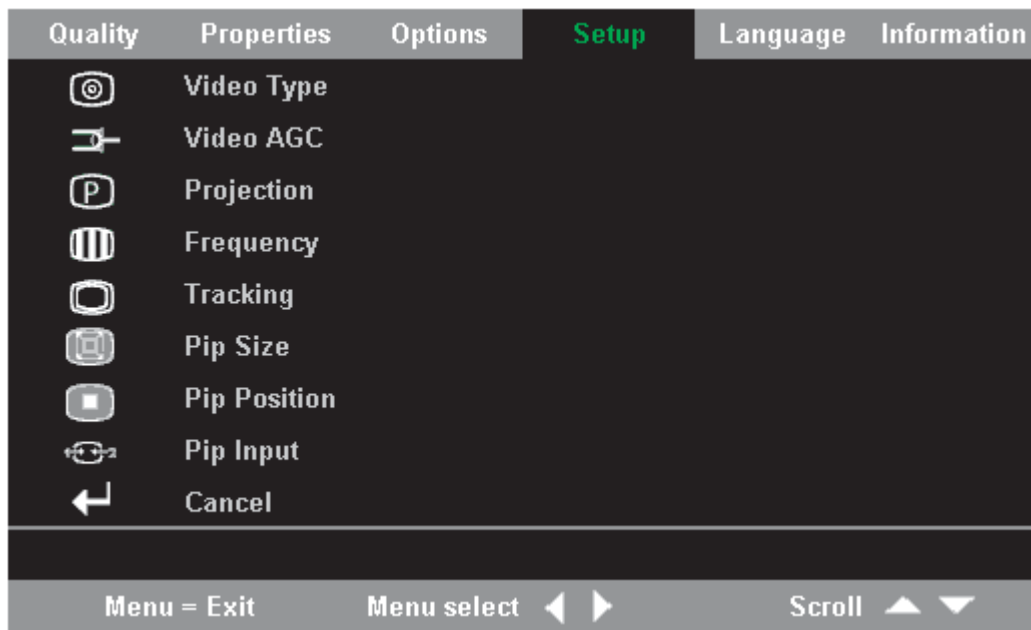
Ponuka Setup

Keď sa chcete dostať k ponuke Setup, vykonajte tieto kroky:

1. Stlačte tlačidlo **Menu**, aby sa otvorila hlavná ponuka.
2. Na presun k ponuke Setup použite klávesy kurzora doľava/doprava.
3. Na pohyb v ponuke Setup použite tlačidlá pohybu kurzora hore/dole. Ponuka Setup s jednoduchým vstupom a ponuka Setup s dvojitým vstupom sú zobrazené nižšie.



Obrázok 5-1. Ponuka Setup s jednoduchým vstupom



Obrázok 5-2. Ponuka Setup s dvojítm vstupom

Nasledujúca tabuľka obsahuje voľby, ktoré uvidíte v ponuke Setup a ich predvolené hodnoty.

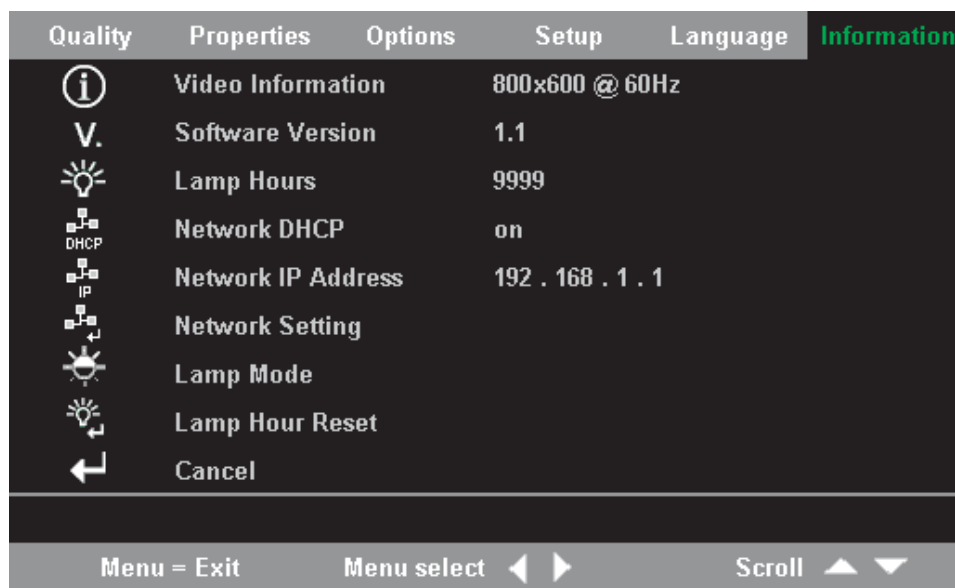
Položka	Opis	Predvolená hodnota
Video type	Na výber štandardnej voľby Video použite tlačidlo na pohyb kurzorom doprava/doľava. Rozsah: Auto/NTSC/PAL/SECAM	Auto

Položka	Opis	Predvolená hodnota
Video automatic gain control (AGC)	Na aktivovanie alebo deaktivovanie AGC pre zdroj videa použite tlačidlo na pohyb kurzorom doprava/doľava. Rozsah: Zap/Vyp	Zap
Projection	Na výber zo štyroch spôsobov projekcie použite tlačidlo na pohyb kurzorom doľava/doprava. Rozsah: Umiestnenie na stole, obrazovka spredu/Umiestnenie na stole, obrazovka zozadu/Umiestnenie na strope, obrazovka spredu/Umiestnenie na strope, obrazovka zozadu	Umiestnenie na stole, obrazovka spredu
Frequency	Na úpravu taktu snímania A/D použite tlačidlá kurzora doľava/doprava. Rozsah: 0-100	Automaticky zisťované
Tracking	Na úpravu počtu snímok A/D použite tlačidlá kurzora doľava/doprava. Rozsah: 0-100	Automaticky zisťované
Pip Size	Na nastavenie sekundárnej veľkosti obrazu použite tlačidlo na pohyb kurzorom doľava/doprava. Poznámka: Voľba Pip Size je dostupná len prípade, ak je projektor pripojený k zdrojom s dvojitým vstupom. Rozsah: Off/Small/Medium/Large	Vyp
Pip Position	Na nastavenie sekundárneho umiestnenia obrazu použite tlačidlo na pohyb kurzorom doľava/doprava. Poznámka: Voľba Pip Position je dostupná len prípade, ak je projektor pripojený k zdrojom s dvojitým vstupom. Rozsah: Zvrchu vľavo po spodok vpravo	Upper Left
Pip Input	Na nastavenie sekundárneho zdroja obrazu použite tlačidlo na pohyb kurzorom doľava/doprava. Poznámka: Voľba Pip Input je dostupná len prípade, ak je projektor pripojený k zdrojom s dvojitým vstupom. Rozsah: Auto/Video/S-video	Auto
Cancel	Nastaví voľby Video Type, Video AGC a Projection na predvolené hodnoty.	N/A

Ponuka Information

Keď sa chcete dostať k ponuke Information, vykonajte tieto kroky:

1. Stlačte tlačidlo **Menu**, aby sa otvorila hlavná ponuka.
2. Na presun do ponuky Information použite tlačidlo na pohyb kurzorom doľava/doprava.
3. Na pohyb v ponuke Information smerom hore alebo dole použite tlačidlá kurzora hore/dole. Ponuka Information je zobrazená nižšie.



Nasledujúca tabuľka obsahuje voľby, ktoré uvidíte v ponuke Information.

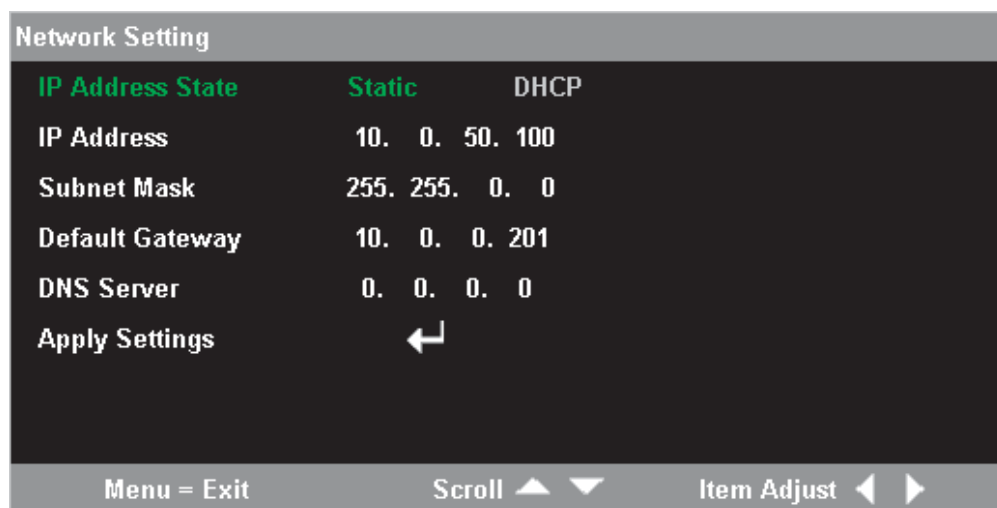
Položka	Opis
Video Information	Zobrazuje rozlíšenie a obnovovaciu frekvenciu pripojeného videozariadenia.
Software Version	Zobrazuje informácie o verzii firmvéru.
Lamp Hours	Zobrazuje informácie o počte hodín, počas ktorých bola lampa v prevádzke.
Network DHCP	Zobrazuje informácie o stave DHCP siete.
Network IP Address	Zobrazuje informácie o IP adrese.
Network Setting	Zobrazuje ponuku Network Setting.
Lamp Mode	Prepína medzi režimami lampy Normal a ECO. Počas režimu ECO sa používa menej elektriny, ale znižuje sa jas lampy
Lamp Hour Reset	Po výmene lampy túto položku vynulujte. Viac informácií nájdete v “Výmena lampy projektora” na strane A-1
Cancel	Režim Lamp Mode vynuluje na predvolené nastavenie.

Ponuka Network Setting

Na prístup do ponuky Network Setting vykonajte nasledujúce kroky:

1. Na otvorenie hlavnej ponuky použite tlačidlo **Menu**.
2. Na presun do ponuky Information použite tlačidlo na pohyb kurzorom doľava/doprava.

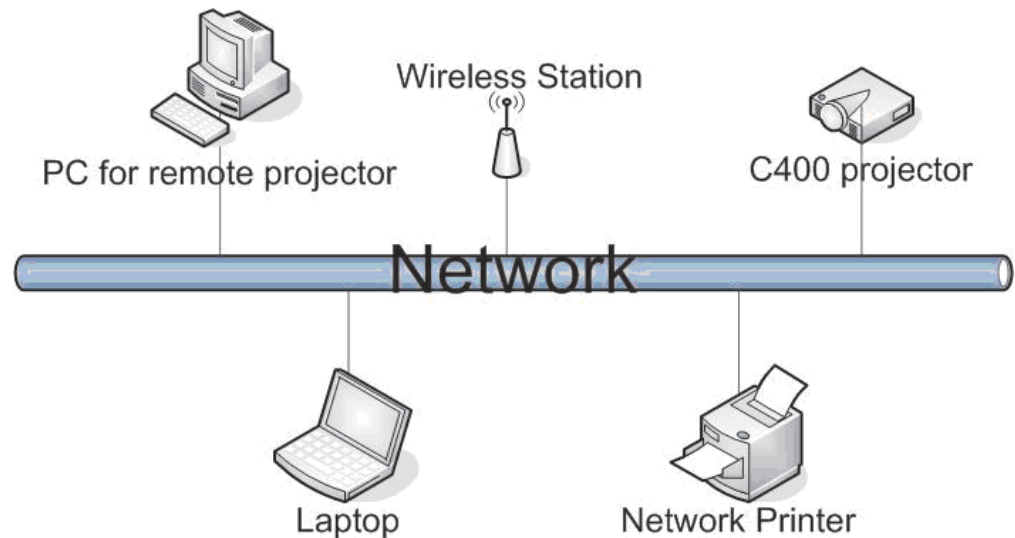
3. Na presun do ponuky Network Setting v ponuke Information použite tlačidlo na pohyb kurzorom nahor/nadol.
4. Na výber ponuky Network Setting použite tlačidlo na pohyb kurzorom doľava/doprava alebo tlačidlo Enter. Vzorová ponuka Network Setting je zobrazená nižšie.



Položka	Opis
IP Address State	Na výber medzi nastaveniami Static a DHCP použite tlačidlo na pohyb kurzorom doľava/doprava. V nastavení Static môže užívateľ zadávať IP adresu, masku podsiete, štandardnú bránu a server DNS. V nastavení DHCP bude mať projektor nastavenú IP adresu, masku podsiete, štandardnú bránu a server DNS. Poznámka: Štandardné nastavenie je DHCP.
IP Address	Na zmenu IP adresy použite tlačidlo na pohyb kurzorom nahor/nadol. Poznámka: IP adresu je možné zmeniť len v prípade, ak IP Address State je Static.
Subnet Mask	Na zmenu masky podsiete použite tlačidlo na pohyb kurzorom nahor/nadol. Poznámka: Masku podsiete je možné zmeniť len v prípade, ak IP Address State je Static.
Default Gateway	Na zmenu štandardnej brány použite tlačidlo na pohyb kurzorom nahor/nadol. Poznámka: Štandardnú bránu je možné zmeniť len v prípade, ak IP Address State je Static.
DNS Server	Na zmenu adresy servera DNS použite tlačidlo na pohyb kurzorom nahor/nadol. Poznámka: Server DNS je možné zmeniť len v prípade, ak IP Address State je Static.
Apply Settings	Toto vyberte na uloženie a používanie nastavení.

Kapitola 6. Diaľkové ovládanie cez sieť

Ak je projektor pripojený k LAN (Local Area Network) pomocou konektora RJ-45, ktorýkoľvek z klientov (PC pripojené k LAN) v sieti LAN ho môže diaľkovo ovládať prostredníctvom webového prehliadača. K projektoru sa dá dostať aj zvonka siete LAN za predpokladu, že firewall je príslušne nakonfigurovaný.

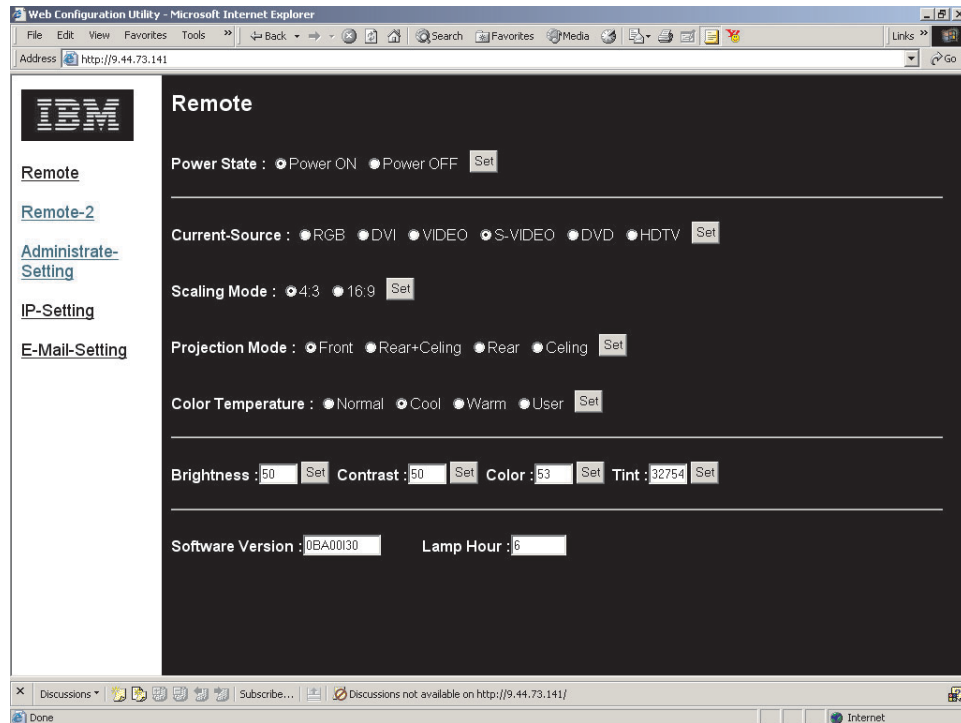


Poznámka: Projektor je z výroby štandardne nastavený na DHCP. Aktuálnu IP adresu môžete vidieť v ponuke Information.

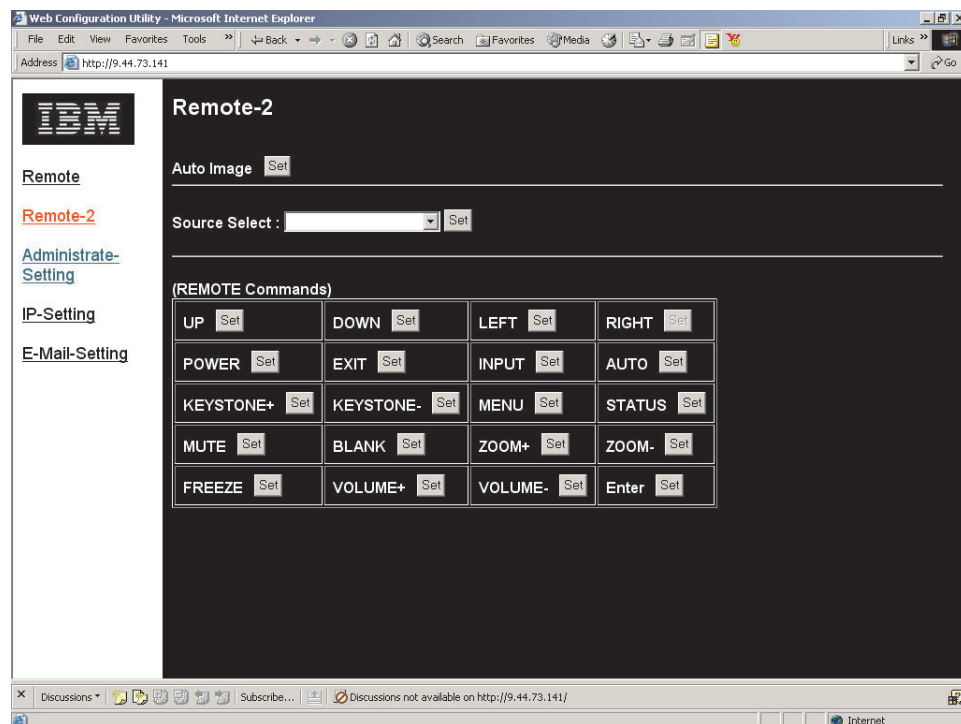
Prehľad vzdialených rozhraní

Nižšie sú zobrazené hlavné obrazovky vzdialených rozhraní.

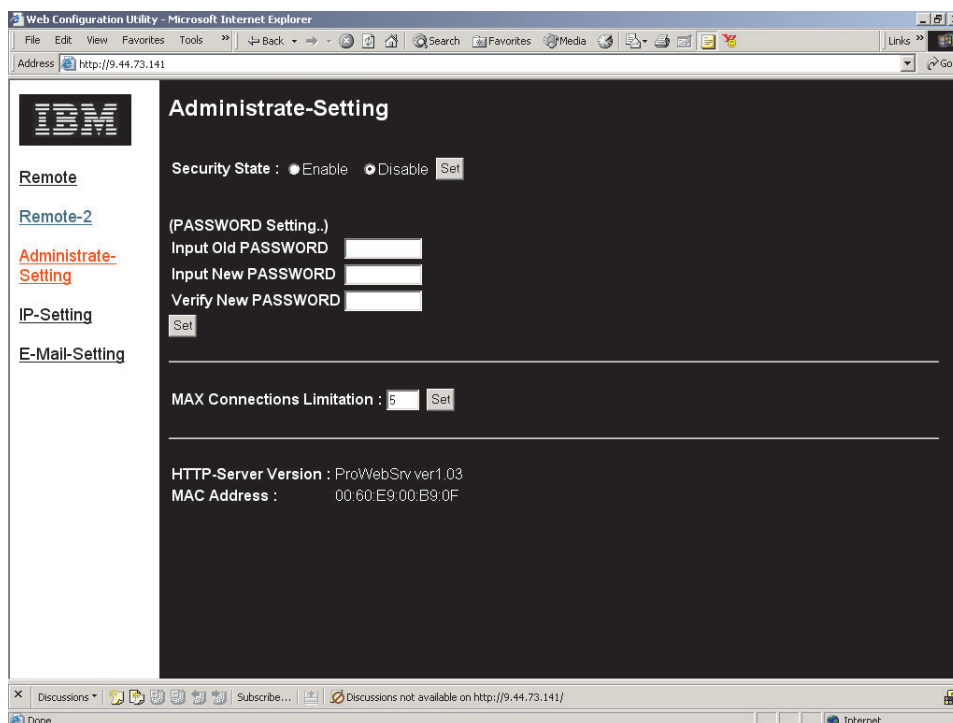
- **Remote:** Táto obrazovka ukazuje aktuálny stav projektora.



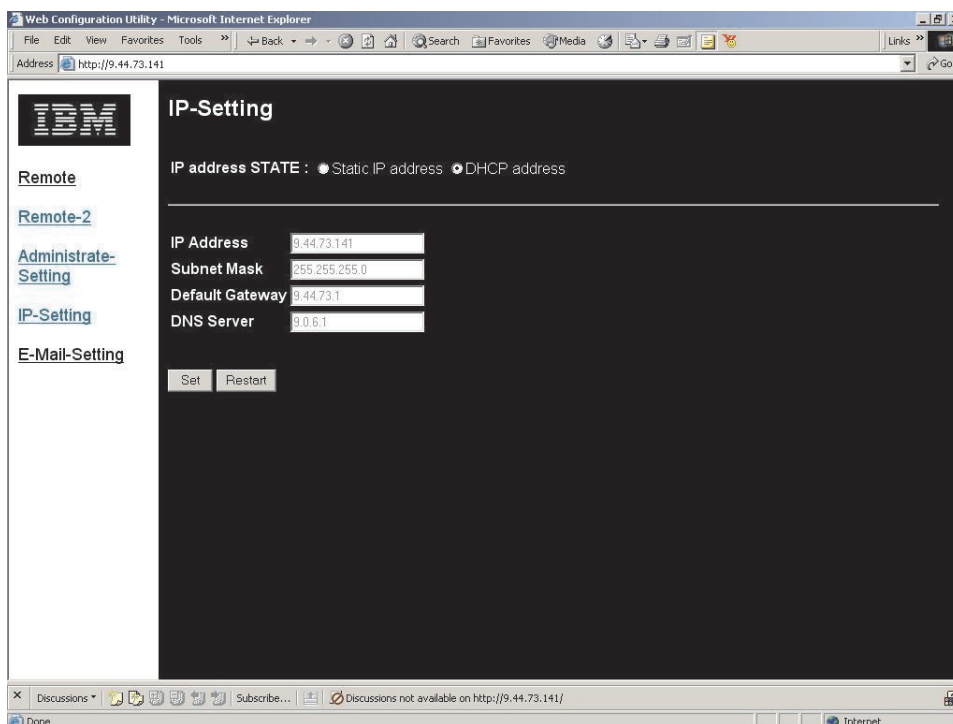
- **Remote-2:** Táto obrazovka sa používa na ovládanie projektora.



- **Administrator Settings:** Táto obrazovka umožňuje administrátorovi nastaviť heslo a obmedziť počet pripojení k projektoru.



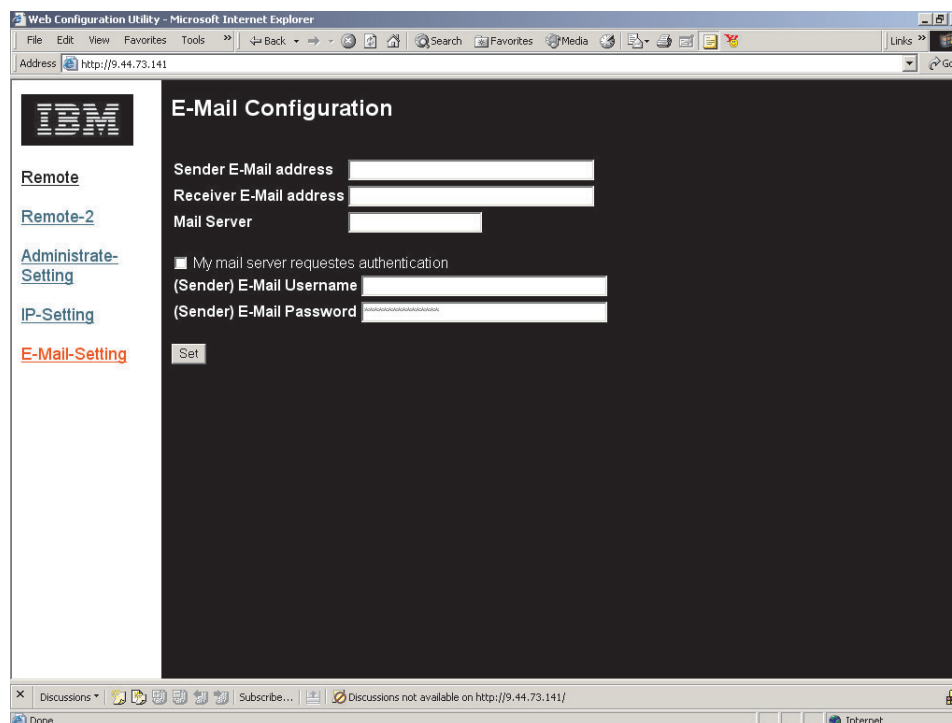
- **IP Settings:** Táto obrazovka umožňuje nastaviť IP adresu ako Static alebo DHCP.



- **E-mail settings:** Správy o stave projektoru možno posilať e-mailom administrátorovi alebo na ktorúkoľvek inú adresu.

Niektoré servery vyžadujú adresu odosielateľa, v opačnom prípade sa e-mail zablokuje. Vo väčšine prípadov bude teda adresa odosielateľa aj príjemcu rovnaká.

Projektor automaticky posiela e-mailom na adresu prijemcu správy o stave, napríklad o stave IP adresy a napájania. Projektor nemôže prijímať e-maily.



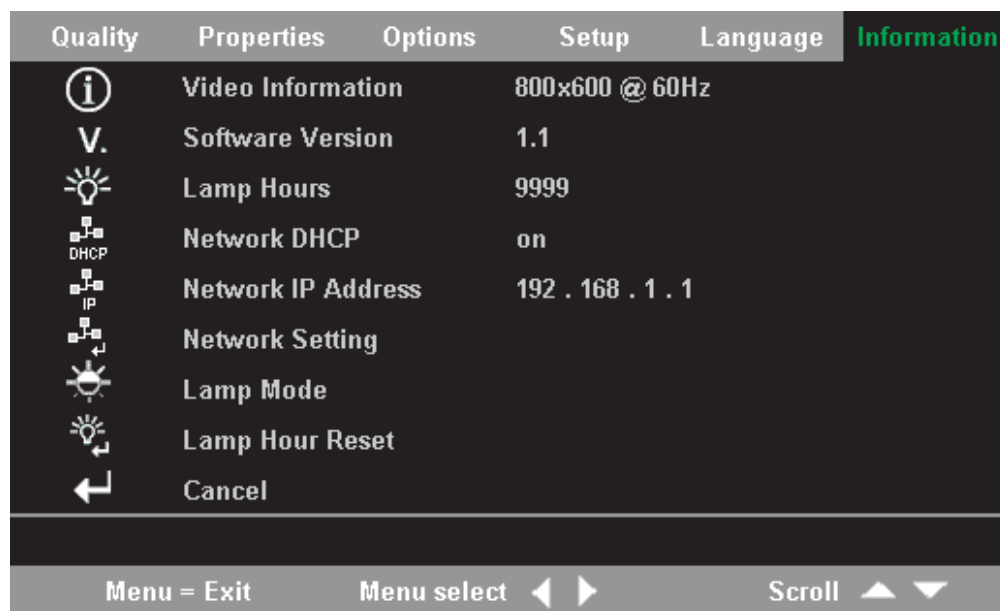
Nastavenie diaľkového ovládania

Mali by ste poznať niektoré alebo všetky nasledujúce nastavenia adresy:

- IP Adresa
- Maska podsiete
- Štandardná brána
- Server DNS
- E-mailová adresa pre vzdialené PC
- Heslo (ak sa vyžaduje) pre vzdialené PC
- Odchádzajúci server (SMTP) pre vzdialené PC

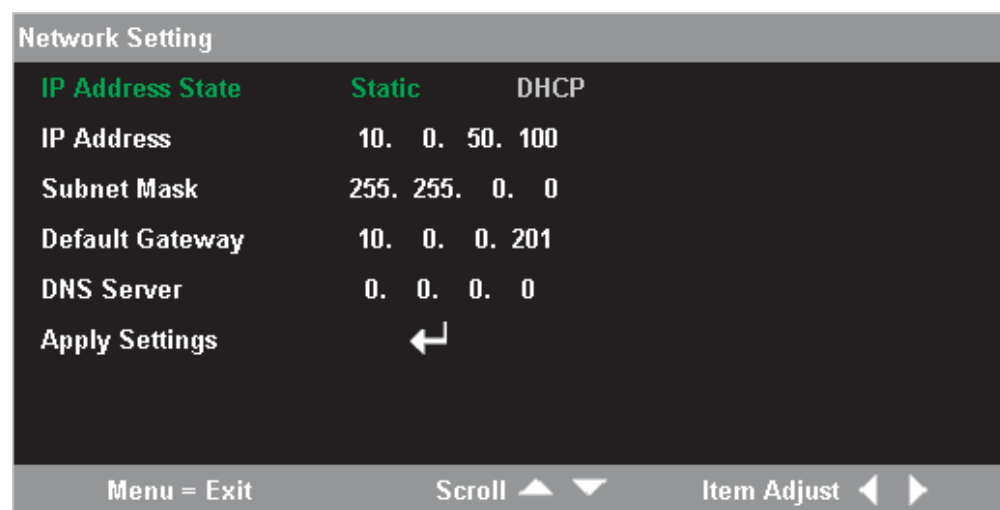
Poznámka: Používaním proxy servera pre vašu LAN sa môžu správy z projektora filtrovať. Tomuto predídete deaktivovaním proxy servera.

Projektor je z výroby štandardne nastavený na DHCP. Aktuálnu IP adresu môžete vidieť v ponuke Information.



Nastavenia môžete zmeniť v ponuke Network Setting. Na prístup do ponuky Network Setting vykonajte nasledujúce kroky:

1. Na otvorenie hlavnej ponuky použite tlačidlo Menu.
2. Na presun do ponuky Information použite tlačidlo na pohyb kurzorom doľava/doprava.
3. Na presun do ponuky Network Setting v ponuke Information použite tlačidlo na pohyb kurzorom nahor/nadol.
4. Na prístup do ponuky Network Setting použite tlačidlo Enter. Ponuka Network Setting je zobrazená nižšie.

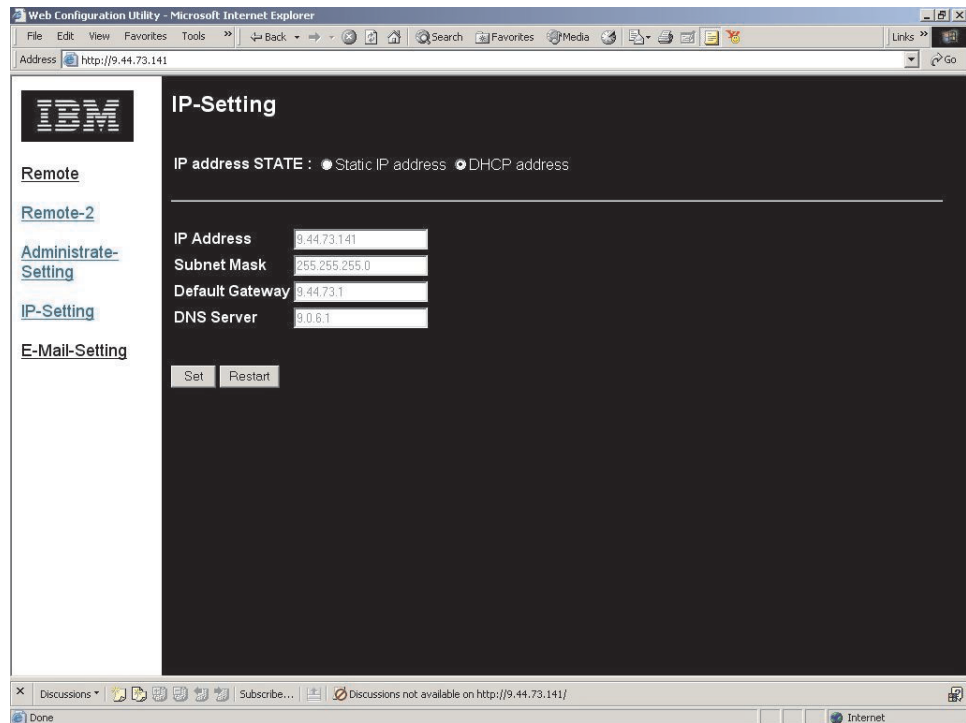


Používanie nastavení DHCP adresy

IP Setting nastavte na DHCP, ak používate server DHCP, ktorý priradí projektoru IP adresu.

1. V lište adries vášho prehliadača zadajte adresu projektora. Príklad: <http://10.0.50.100>
Otvorí sa stránka Remote.

2. Kliknite na **IP Settings**.

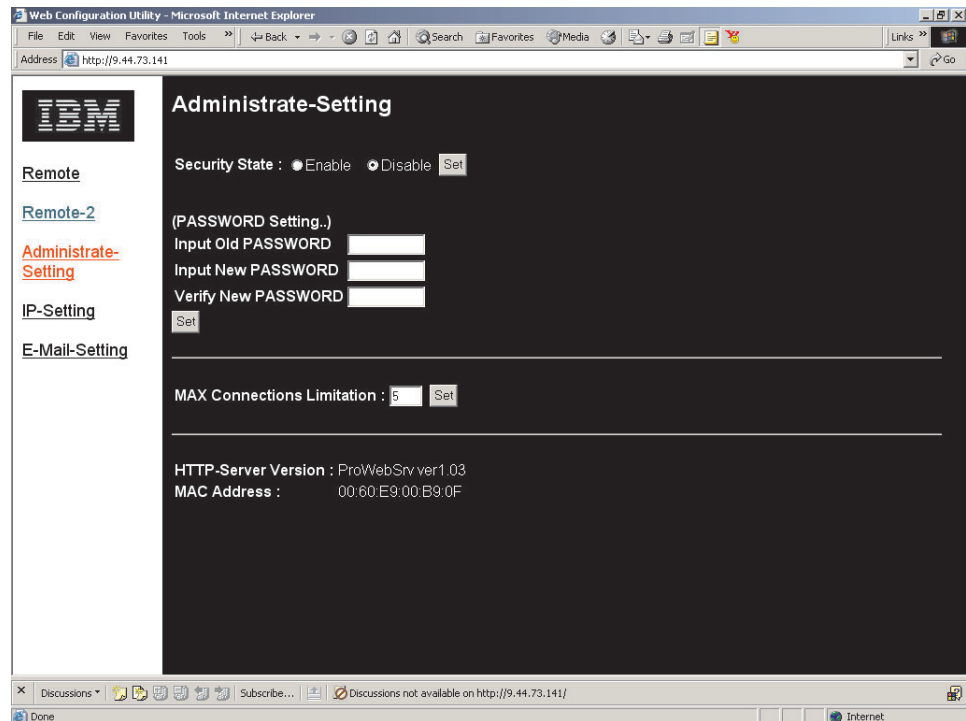


3. Vyberte rádiové tlačidlo **DHCP Address** a kliknite na **Set**.

Aktivovanie a deaktivovanie hesiel

Štandardné nastavenie je Disable a nie je nastavené žiadne heslo.

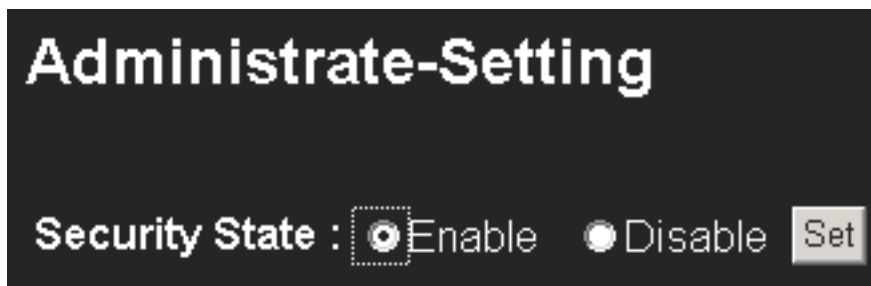
1. Kliknite na **Administrative Settings**. Otvorí sa stránka Administrative Settings.



2. Vyberte rádiové tlačidlo **Enable** a kliknite na **Set**.

ALEBO

Kliknite na rádiové tlačidlo **Disable** a následne kliknite na **Set**.



3. Kliknite na tlačidlo Back vo vašom prehliadači a prejdite do polička Input PASSWORD.

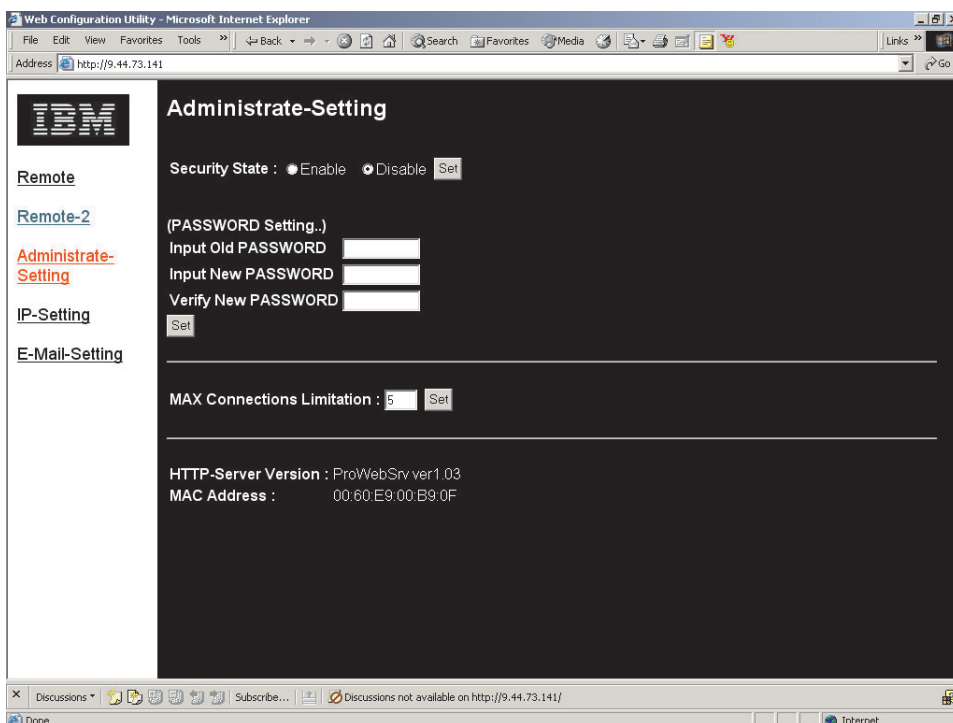


4. Zadať heslo a kliknite na **Login**.

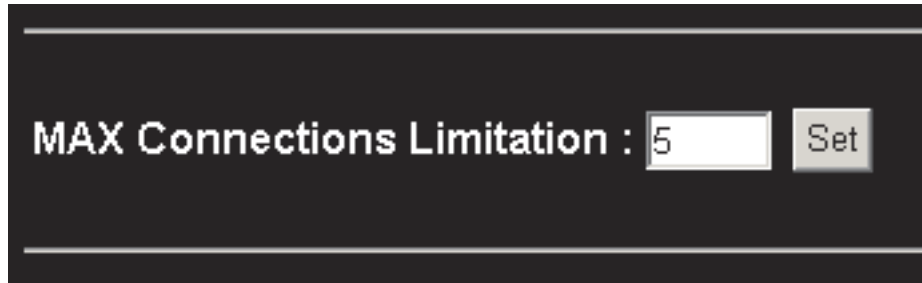
Nastavenie maximálneho počtu pripojení

V nasledovnom nájdete informácie o tom, ako obmedziť počet užívateľov, ktorí sa môžu prihlásiť na projektor.

1. Kliknite na **Administrate Settings**. Otvorí sa stránka Administrate Settings.



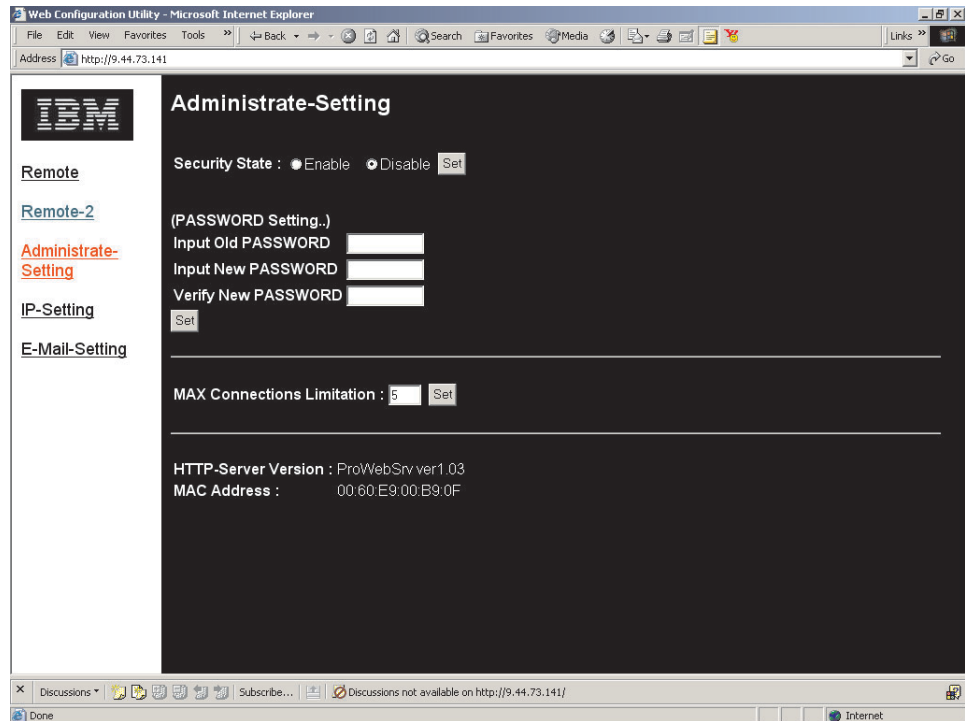
2. Zadáte počet a kliknete na **Set**.



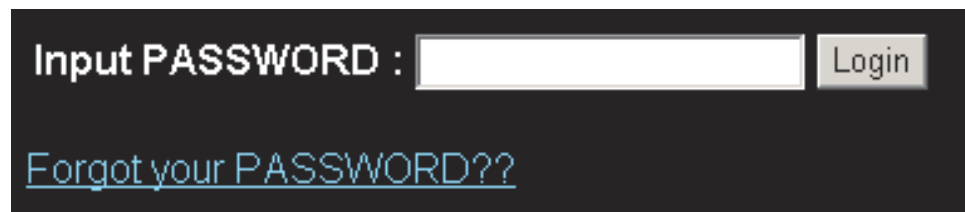
Načítanie zabudnutého hesla

V nasledovnom nájdete informácie o tom, ako načítať zabudnuté heslo.

1. Skontrolujte, či je vybrané rádiové tlačidlo **Enable** (vedľa Security Status) a kliknite na **Set**.



2. Na obrazovke Input Password kliknite na **Forgot your Password?**



3. Zadajte vašu e-mailovú adresu a kliknite na **Send**.

IF you just forgot your PASSWORD..
Please input the Administrator E-Mail address. System would check
your E-mail address. If matching, then send the PASSWORD to the
administrator.

Your Email :

4. Aktuálne heslo projektora dostanete e-mailom.

Príloha A. Údržba

Táto kapitola poskytuje informácie o údržbe projektoru.

Čistenie projektoru

Odstraňovaním prachu a nečistoty z projektoru sa zabezpečí jeho bezproblémová prevádzka.

- Najmenej 1 hodinu pred čistením musíte projektor vypnúť a odpojiť. V opačnom prípade sa vystavujete nebezpečenstvu vážneho popálenia.
- Pri čistení používajte len vlhkú handričku. Do vetracích otvorov na projektore sa nesmie dostať voda.
- Ak sa počas čistenia dostane do vnútra projektoru čo i len malé množstvo vody, musíte projektor pred použitím nechať niekoľko hodín odpojený v dobre vetranej miestnosti.
- Ak sa počas čistenia dostane do vnútra projektoru veľké množstvo vody, musíte dať projektor do opravy.

Čistenie šošovky

Ak chcete vyčistiť šošovku, postupujte nasledovne:

1. Na mäkkú, suchú handričku naneste neabrazívny čistiaci prostriedok, určený pre objektívy fotoaparátov.

Poznámka: Nepoužívajte veľké množstvo čistiaceho prostriedku a nenanášajte ho priamo na šošovku. Abrazívne čistiace prostriedky, rozpúšťadlá alebo iné agresívne chemikálie môžu šošovku poškriabať.

2. Šošovku jemne utierajte handričkou krúživým pohybom. Ak nechcete projektor okamžite použiť, na šošovku znova nasadte kryt.

Čistenie kufrika

Pri čistení kufrika na projektor postupujte nasledovne:

1. Čistou vlhkou handričkou utrite prach.
2. Handričku navlhčíte teplou vodou a jemným saponátom (napríklad prípravkom na umývanie riadu) a kufrik poutierajte.
3. Z handričky dobre vypláčajte všetok saponát a kufrik znova poutierajte.

Poznámka: Ak chcete predísť odfarbeniu alebo vyblednutiu kufrika, nepoužívajte abrazívne čistiace prostriedky na báze alkoholu.

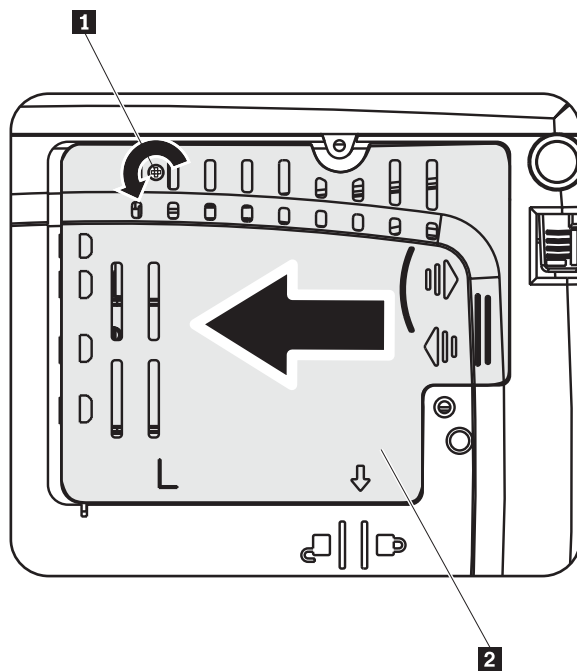
Výmena lampy projektoru

Lampa projektoru môže byť vymenená len za certifikovaný náhradný dielec IBM, ktorý si môžete objednať u vášho obchodného partnera alebo choďte na www.ibm.com/pc.

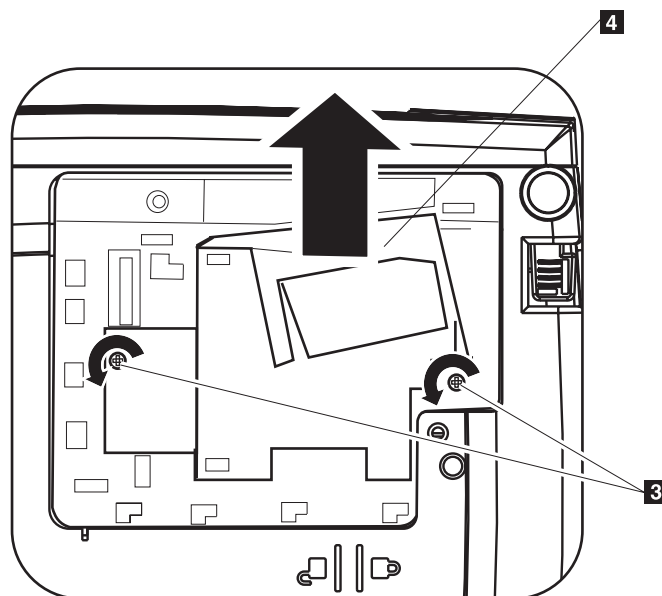
Pri výmene projekčnej lampy postupujte takto:

1. Vypnite projektor, vytiahnite napájací kábel a nechajte projektor vychladnúť aspoň 1 hodinu.

2. Na odstránenie skrutky z krytu na schránke lampy použite krížový skrutkovač ako je znázornené na **1**.
3. Odstráňte kryt schránky lampy ako je znázornené na **2**.



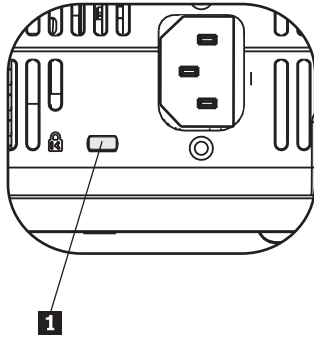
4. Z lampového modulu odstráňte dve skrutky ako je znázornené na **3**.
5. Nadvihnite páčku modulu a pevne ju ťahajte nahor ako je znázornené na **4**.



6. Pri inštalácii nového lampového modulu zopakujte kroky 1 až 5 v opačnom poradí.

Použitie otvoru na zabezpečenie

Projektor má bezpečnostný otvor, ako je znázornené nižšie na **1**. Pozrite si informácie, dodávané spolu s bezpečnostným zámkom, kde nájdete inštrukcie na jeho používanie.



Príloha B. Odstraňovanie problémov

Dole uvedené pokyny poskytujú tipy na riešenie problémov, ktoré by ste mohli zaznamenať počas používania projektora. Ak nedokážete konkrétny problém vyriešiť, požiadajte o pomoc vášho predajcu.

Bežné problémy a riešenia

Než prikrôčíte ku konkrétnemu riešeniu problému, skontrolujte nasledovné:

- Použitím iného elektrického zariadenia skontrolujte, či je elektrická zásuvka funkčná.
- Skontrolujte, či je projektor zapnutý.
- Skontrolujte, či sú všetky pripojené zariadenia bezpečne pripojené.
- Skontrolujte, či je pripojené zariadenie zapnuté.
- Skontrolujte, či pripojené PC nie je v pozastavenom režime.
- Skontrolujte, či je pripojený notebook nakonfigurovaný pre externú obrazovku. Toto sa zvyčajne vykoná stlačením kombinácie klávesu Fn s iným klávesom na notebooku.

Tipy na odstraňovanie problémov

V každej časti, týkajúcej sa konkrétneho problému, vyskúšajte kroky v odporúčanom poradí. Pomôže vám to rýchlejšie vyriešiť problém.

Pokúste sa presne identifikovať problém, čím sa vyhnete výmene nezávadných dielov. Ak napríklad vymeníte batérie a problém pretrváva, vložte naspäť pôvodné batérie a prejdite na ďalší krok.

Počas odstraňovania problémov si zaznamenávajte vykonané kroky. Tieto informácie môžu byť užitočné v prípade, že zavoláte technickú podporu alebo servisných technikov.

Informácie o odstraňovaní problémov

Nasledujúca tabuľka obsahuje informácie o odstraňovaní problémov s projektorom. V niektorých prípadoch sa uvádza viac ako jedno možné riešenie. Riešenia používajte v takom poradí, v akom sú uvádzané. Pokiaľ problém vyriešite, ďalšie riešenia môžete vynechať.

Tabuľka B-1. Odstraňovanie problémov

Problém	Riešenie
Na plátne sa neobjaví obraz.	<ul style="list-style-type: none">• Presvedčte sa, že je počítač a projektor zapnutý.• Overte nastavenia na vašom notebooku alebo stolnom PC.• Vypnite všetky zariadenia a znova ich zapnite v správnom poradí.
Obraz je rozmazaný	<ul style="list-style-type: none">• Upravte zaostrenie na projektore.• Stlačte tlačidlo Auto na diaľkovom ovládači alebo na projektore.• Presvedčte sa, či je vzdialenosť projektora od plátna vrámci špecifikovaného rozsahu.• Skontrolujte, či je objektív projektora čistý.• Skontrolujte, či rozlíšenie výstupu z PC je 1024 x 768, čo je natívne rozlíšenie projektora.

Tabuľka B-1. Odstraňovanie problémov (pokračovanie)

Problém	Riešenie
Obraz je širší navrchu alebo naspodku (lichobežníkový efekt).	<ul style="list-style-type: none"> • Umiestnite projektor tak, aby bol čo najviac kolmý na premietacie plátno. • Na vyriešenie problému použite tlačidlo Keystone na diaľkovom ovládači alebo projektore.
Obraz je otočený alebo hore nohami.	Skontrolujte nastavenia Projection v ponuke OSD Setup.
Obraz je pruhovaný.	<ul style="list-style-type: none"> • Nastavte Frequency a Tracking v ponuke OSD Setup na predvolené nastavenia. • Uistite sa, že problém nie je spôsobený videokartou pripojeného PC, pripojením k inému počítaču.
Obraz je nejasný, bez kontrastu	Upravte nastavenia Contrast v hlavnom menu OSD.
Farba premietaného obrazu sa nezhoduje so zdrojovým obrazom	Upravte nastavenia Color Temp a Gamma v ponuke OSD ColorMgr.
Projektor nesvieti	<ul style="list-style-type: none"> • Skontrolujte, či je napájací kábel dôkladne pripojený. • Presvedčte sa, či je napájací zdroj v poriadku otestovaním iného elektrického zariadenia. • Reštartujte projektor v správnom poradí a skontrolujte, či LED napájania svieti zeleným svetlom. • Ak ste práve vymenili lampu, skontrolujte jej pripojenie. Presvedčte sa, či je kryt lampy netrčí zo skrinky projektoru, keď ju zatvárate. • Vymeňte modul lampy. • Vložte do projektoru späť starú lampu a dajte projektor do opravy.
Lampa nesvieti.	<ul style="list-style-type: none"> • Nárazový prúd môže spôsobiť zničenie lampy. Stlačte dvakrát tlačidlo Power, aby sa projektor vypol. Keď svieti kontrolka LED Ready, stlačte tlačidlo Power. • Vymeňte lampový modul. • Vložte do projektoru späť starú lampu a dajte projektor do opravy.
Projektor nereaguje na diaľkový ovládač.	<ul style="list-style-type: none"> • Diaľkový ovládač nasmerujte na vzdialený senzor na projektore. • Presvedčte sa, či nie je cesta medzi diaľkovým ovládačom a senzorom zatarasená. • Vypnite všetky fluorescenčné svetlá v miestnosti. • Skontrolujte polaritu batérie. • Vymeňte batérie. • Vypnite ostatné susediace infračervené zariadenia. • Dajte diaľkový ovládač do opravy.
Nefunguje zvuk.	<ul style="list-style-type: none"> • Upravte hlasitosť na diaľkovom ovládači. • Upravte hlasitosť audiozdroja. • Skontrolujte pripojenie audiokábla. • Otestujte výstup audiozdroja s inými reproduktormi. • Dajte projektor do opravy.
Zvuk je skreslený.	<ul style="list-style-type: none"> • Skontrolujte pripojenie audiokábla. • Otestujte výstup audiozdroja s inými reproduktormi. • Dajte projektor do opravy.

LED indikátory projektora

Dióda LED na vrchnej strane projektora indikuje stav projektora a môže vám pomôcť pri odstraňovaní problémov. Cykly blikania sa opakujú v dvojsekundových intervaloch. Podrobnejšie informácie o poruchách projektora indikovaných kontrolkou LED vám poskytne zástupca IBM.

Tabuľka B-2. Chybové správy indikované kontrolkou LED Ready

Počet zablikaní kontrolky LED Ready	Svetlenie
Blikanie	Lampa nie je pripravená- nestláčajte tlačidlo napájania, kým blikanie neprestane.
1	Chyba ventilátora predného krytu
2	Chyba ventilátora lampy
3	Chyba ventilátora napájacej dosky
4	Chyba fúkacieho ventilátora
5	Chyba ventilátora

Tabuľka B-3. Chybové správy LED napájania

Počet zablikaní LED napájania	Svetlenie
3	Prehriatie systému
4	Chyba rozhrania systému
5	Chyba lampy
6	Chyba ventilátora. Pozrite sa na kontrolku LED Ready, aby ste určili chybný ventilátor.
7	Otvorený kryt lampy
8	Chyba ovládača DLP.

Príloha C. Technické špecifikácie

Nasledujú špecifikácie pre projektor IBM C400.

Teplota (mimo prevádzky)	od 5° do 35° C (od 41° do 95° F) v nulovej nadmorskej výške od -10° do 60° C (od 14° do 140° F)
Nadmorská výška (počas prevádzky)	3048 m (od 0 do 10000 stôp)
Nadmorská výška (mimo prevádzky)	12192 m (od 0 do 40000 stôp)
Vlhkosť (počas prevádzky)	Relatívna vlhkosť od 5% do 90%, nekondenzujúca
Vlhkosť (mimo prevádzky)	Relatívna vlhkosť od 5% do 95%, nekondenzujúca
Rozmery (V x Š x H)	86 mm x 285 mm x 220 mm (3,38 palca x 11,21 palca x 8,66 palca)
Hmotnosť	3,1 kg (6,8 libry) bez obalu
Optika (rozsah zaostrenia)	1,2 - 9,4 m (od 4 do 31 stôp)
Typ lampy	Lampa 250 W
Lúmeny	2650 lúmenov (Ekonomický režim: 1850 lúmenov)
Požiadavky na príkon	100-240V 4,5A 50/60 Hz

Príloha D. Service and Support

The following information describes the technical support that is available for your product, during the warranty period or throughout the life of the product. Refer to your IBM Statement of Limited Warranty for a full explanation of IBM warranty terms.

Online technical support

Online technical support is available during the life of your product through the Personal Computing Support Web site at <http://www.ibm.com/pc/support>.

During the warranty period, assistance for replacement or exchange of defective components is available. In addition, if your IBM option is installed in an IBM computer, you might be entitled to service at your location. Your technical support representative can help you determine the best alternative.

Telephone technical support

Installation and configuration support through the IBM Support Center will be withdrawn or made available for a fee, at IBM's discretion, 90 days after the option has been withdrawn from marketing. Additional support offerings, including step-by-step installation assistance, are available for a nominal fee.

To assist the technical support representative, have available as much of the following information as possible:

- Option name
- Option number
- Proof of purchase
- Computer manufacturer, model, serial number (if IBM), and manual
- Exact wording of the error message (if any)
- Description of the problem
- Hardware and software configuration information for your system

If possible, be at your computer. Your technical support representative might want to walk you through the problem during the call.

For the support telephone number and support hours by country, refer to the following table. If the number for your country or region is not listed, contact your IBM reseller or IBM marketing representative. Response time may vary depending on the number and nature of the calls received.

Phone numbers are subject to change without notice. For the latest phone number list, go to <http://www.ibm.com/pc/support> and click **Support Phone List**.

Country or Region	Telephone Number	Country or Region	Telephone Number
Africa	+44 (0) 1475 555 055	Japan	Desktop: 0120-887-870 <ul style="list-style-type: none"> Overseas calls: 81-46-266-1084 ThinkPad: 0120-887-874 <ul style="list-style-type: none"> Overseas calls: 81-46-266-1084 IntelliStation and xSeries: 81-46-266-1358 PC Software: 0120-558-695 <ul style="list-style-type: none"> Overseas calls: 81-44-200-8666
Argentina	0800-666-0011	Luxembourg	298-977-5063
Australia	131-426	Malaysia	(60) 3-7727-7800
Austria	01-24592-5901	Mexico	001-866-434-2080
Bolivia	0800-0189	Middle East	+44 (0) 1475 555 055
Belgium	Dutch: 02-210 9820 French: 02-210 9800	Netherlands	020-514 5770
Brazil	55-11-3889-8986	New Zealand	0800-446-149
Canada	English: 1-800-565-3344 French: 1-800-565-3344 In Toronto: 416-383-3344	Nicaragua	255-6658
Chile	800-224-488	Norway	66 81 11 00
China	800-810-1818	Panama	206-6047
China (Hong Kong and S.A.R.)	Home PC: 852-2825-7799 Commercial PC: 852-8205-0333	Peru	0-800-50-866
Colombia	980-912-3021	Philippines	(63) 2-995-2225
Costa Rica	284-3911	Portugal	21-892-7147
Denmark	45 20 82 00	Russia	095-940-2000
Dominican Republic	566-4755 or 566-5161 ext. 8201 Toll Free within the Dominican Republic: 1-200-1929	Singapore	(65) 1-800-840-9911
Ecuador	1-800-426911 (option #4)	Spain	91-714-7983
El Salvador	250-5696	Sweden	08-477 4420

Country or Region	Telephone Number	Country or Region	Telephone Number
Finland	09-459 69 60	Switzerland	058-333-0900
France	02 38 55 74 50	Taiwan	886-2-8723-9799
Germany	07032-1549 201	Thailand	(66) 2-273-4000
Guatemala	335-8490	Turkey	00-800-446-32-041
Honduras	Tegucigalpa & Sand Pedro Sula: 232-4222 San Pedro Sula: 552-2234	United Kingdom	0-1475-555 055
India	1600-44-6666	United States	1-800-IBM-SERV (1-800-426-7378)
Indonesia	(62) 21-523-8535	Uruguay	000-411-005-6649
Ireland	01-815-9202	Venezuela	0-800-100-2011
Italy	01-815-9202	Vietnam	Ho Chi Minh: (84) 8-829-5160 Hanoi: (84) 4-843-6675

Priloha E. IBM Statement of Limited Warranty Z125-4753-08 04/2004

Part 1 - General Terms

*This Statement of Limited Warranty includes Part 1 - General Terms, Part 2 - Country-unique Terms, and Part 3 - Warranty Information. The terms of Part 2 replace or modify those of Part 1. The warranties provided by IBM in this Statement of Limited Warranty apply only to Machines you purchase for your use, and not for resale. The term "Machine" means an IBM machine, its features, conversions, upgrades, elements, or accessories, or any combination of them. The term "Machine" does not include any software programs, whether pre-loaded with the Machine, installed subsequently or otherwise. **Nothing in this Statement of Limited Warranty affects any statutory rights of consumers that cannot be waived or limited by contract.***

What this Warranty Covers

*IBM warrants that each Machine 1) is free from defects in materials and workmanship and 2) conforms to IBM's Official Published Specifications ("Specifications") which are available on request. The warranty period for the Machine starts on the original Date of Installation and is specified in Part 3 - Warranty Information. The date on your invoice or sales receipt is the Date of Installation unless IBM or your reseller informs you otherwise. Many features, conversions, or upgrades involve the removal of parts and their return to IBM. A part that replaces a removed part will assume the warranty service status of the removed part. Unless IBM specifies otherwise, these warranties apply only in the country or region in which you purchased the Machine. **THESE WARRANTIES ARE YOUR EXCLUSIVE WARRANTIES AND REPLACE ALL OTHER WARRANTIES OR CONDITIONS, EXPRESS OR IMPLIED, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OR CONDITIONS OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE. SOME STATES OR JURISDICTIONS DO NOT ALLOW THE EXCLUSION OF EXPRESS OR IMPLIED WARRANTIES, SO THE ABOVE EXCLUSION MAY NOT APPLY TO YOU. IN THAT EVENT, SUCH WARRANTIES ARE LIMITED IN DURATION TO THE WARRANTY PERIOD. NO WARRANTIES APPLY AFTER THAT PERIOD. SOME STATES OR JURISDICTIONS DO NOT ALLOW LIMITATIONS ON HOW LONG AN IMPLIED WARRANTY LASTS, SO THE ABOVE LIMITATION MAY NOT APPLY TO YOU.***

What this Warranty Does not Cover

This warranty does not cover the following:

- any software programs, whether pre-loaded or shipped with the Machine, or installed subsequently;
- failure resulting from misuse (including but not limited to use of any Machine capacity or capability, other than that authorized by IBM in writing), accident, modification, unsuitable physical or operating environment, or improper maintenance by you;
- failure caused by a product for which IBM is not responsible; and
- any non-IBM products, including those that IBM may procure and provide with or integrate into an IBM Machine at your request.

The warranty is voided by removal or alteration of identification labels on the Machine or its parts.

IBM does not warrant uninterrupted or error-free operation of a Machine.

Any technical or other support provided for a Machine under warranty, such as assistance with "how-to" questions and those regarding Machine set-up and installation, is provided **WITHOUT WARRANTIES OF ANY KIND.**

How to Obtain Warranty Service

If the Machine does not function as warranted during the warranty period, contact IBM or your reseller to obtain warranty service. If you do not register the Machine with IBM, you may be required to present proof of purchase as evidence of your entitlement to warranty service.

What IBM Will Do to Correct Problems

When you contact IBM for service, you must follow the problem determination and resolution procedures that IBM specifies. An initial diagnosis of your problem can be made either by a technician over the telephone or electronically by access to an IBM website. The type of warranty service applicable to your Machine is specified in Part 3 - Warranty Information. You are responsible for downloading and installing designated Machine Code (microcode, basic input/output system code (called "BIOS"), utility programs, device drivers, and diagnostics delivered with an IBM Machine) and other software updates from an IBM Internet Web site or from other electronic media, and following the instructions that IBM provides. If your problem can be resolved with a Customer Replaceable Unit ("CRU") (e.g., keyboard, mouse, speaker, memory, hard disk drive), IBM will ship the CRU to you for you to install. If the Machine does not function as warranted during the warranty period and your problem cannot be resolved over the telephone or electronically, through your application of Machine Code or software updates, or with a CRU, IBM or your reseller, if approved by IBM to provide warranty service, will either, at its discretion, 1) repair it to make it function as warranted, or 2) replace it with one that is at least functionally equivalent. If IBM is unable to do either, you may return the Machine to your place of purchase and your money will be refunded. IBM or your reseller will also manage and install selected engineering changes that apply to the Machine.

Exchange of a Machine or Part

When the warranty service involves the exchange of a Machine or part, the item IBM or your reseller replaces becomes its property and the replacement becomes yours. You represent that all removed items are genuine and unaltered. The replacement may not be new, but will be in good working order and at least functionally equivalent to the item replaced. The replacement assumes the warranty service status of the replaced item.

Your Additional Responsibilities

Before IBM or your reseller exchanges a Machine or part, you agree to remove all features, parts, options, alterations, and attachments not under warranty service.

You also agree to:

1. ensure that the Machine is free of any legal obligations or restrictions that prevent its exchange;
2. obtain authorization from the owner to have IBM or your reseller service a Machine that you do not own; and
3. where applicable, before service is provided:
 - a. follow the service request procedures that IBM or your reseller provides;
 - b. backup or secure all programs, data, and funds contained in the Machine;
 - c. provide IBM or your reseller with sufficient, free, and safe access to your facilities to permit IBM to fulfill its obligations; and
 - d. inform IBM or your reseller of changes in the Machine's location.
4. (a) ensure all information about identified or identifiable individuals (Personal Data) is deleted from the Machine (to the extent technically possible), (b) allow IBM, your reseller or an IBM supplier to process on your behalf any remaining Personal Data as IBM or your reseller considers necessary to fulfill its obligations under this Statement of Limited Warranty (which may include shipping the Machine for such processing to other IBM service locations around the world), and (c) ensure that such processing complies with any laws applicable to such Personal Data.

Limitation of Liability

IBM is responsible for loss of, or damage to, your Machine only while it is 1) in IBM's possession or 2) in transit in those cases where IBM is responsible for the transportation charges.

Neither IBM nor your reseller are responsible for any of your confidential, proprietary or personal information contained in a Machine which you return to IBM for any reason. You should remove all such information from the Machine prior to its return.

Circumstances may arise where, because of a default on IBM's part or other liability, you are entitled to recover damages from IBM. In each such instance, regardless of the basis on which you are entitled to claim damages from IBM (including fundamental breach, negligence, misrepresentation, or other contract or tort claim), except for any liability that cannot be waived or limited by applicable laws, IBM is liable for no more than

1. damages for bodily injury (including death) and damage to real property and tangible personal property; and
2. the amount of any other actual direct damages, up to the charges (if recurring, 12 months' charges apply) for the Machine that is subject of the claim. For purposes of this item, the term "Machine" includes Machine Code and Licensed Internal Code ("LIC").

This limit also applies to IBM's suppliers and your reseller. It is the maximum for which IBM, its suppliers, and your reseller are collectively responsible.

UNDER NO CIRCUMSTANCES IS IBM, ITS SUPPLIERS OR RESELLERS LIABLE FOR ANY OF THE FOLLOWING EVEN IF INFORMED OF THEIR POSSIBILITY: 1) THIRD PARTY CLAIMS AGAINST YOU FOR DAMAGES (OTHER THAN THOSE UNDER THE FIRST ITEM LISTED ABOVE); 2) LOSS OF, OR DAMAGE TO, DATA; 3) SPECIAL, INCIDENTAL, OR INDIRECT DAMAGES OR FOR ANY ECONOMIC CONSEQUENTIAL DAMAGES; OR 4) LOST PROFITS, BUSINESS REVENUE, GOODWILL OR ANTICIPATED SAVINGS. SOME STATES OR JURISDICTIONS DO NOT ALLOW THE EXCLUSION OR LIMITATION OF INCIDENTAL OR CONSEQUENTIAL DAMAGES, SO THE ABOVE LIMITATION OR EXCLUSION MAY NOT APPLY TO YOU. SOME STATES OR JURISDICTIONS DO NOT ALLOW LIMITATIONS ON HOW LONG AN IMPLIED WARRANTY LASTS, SO THE ABOVE LIMITATION MAY NOT APPLY TO YOU.

Governing Law

Both you and IBM consent to the application of the laws of the country in which you acquired the Machine to govern, interpret, and enforce all of your and IBM's rights, duties, and obligations arising from, or relating in any manner to, the subject matter of this Statement of Limited Warranty, without regard to conflict of law principles.

THESE WARRANTIES GIVE YOU SPECIFIC LEGAL RIGHTS AND YOU MAY ALSO HAVE OTHER RIGHTS WHICH VARY FROM STATE TO STATE OR JURISDICTION TO JURISDICTION.

Jurisdiction

All of our rights, duties, and obligations are subject to the courts of the country in which you acquired the Machine.

Part 2 - Country-unique Terms

AMERICAS

ARGENTINA

Jurisdiction: *The following is added after the first sentence:*

Any litigation arising from this Statement of Limited Warranty will be settled exclusively by the Ordinary Commercial Court of the city of Buenos Aires.

BOLIVIA

Jurisdiction: *The following is added after the first sentence:*

Any litigation arising from this Statement of Limited Warranty will be settled exclusively by the courts of the city of La Paz.

BRAZIL

Jurisdiction: *The following is added after the first sentence:*

Any litigation arising from this Agreement will be settled exclusively by the court of Rio de Janeiro, RJ.

CHILE

Jurisdiction: *The following is added after the first sentence:*

Any litigation arising from this Statement of Limited Warranty will be settled exclusively by the Civil Courts of Justice of Santiago.

COLOMBIA

Jurisdiction: *The following is added after the first sentence:*

Any litigation arising from this Statement of Limited Warranty will be settled exclusively by the Judges of the Republic of Colombia.

EQUADOR

Jurisdiction: *The following is added after the first sentence:*

Any litigation arising from this Statement of Limited Warranty will be settled exclusively by the Judges of Quito.

MEXICO

Jurisdiction: *The following is added after the first sentence:*

Any litigation arising from this Statement of Limited Warranty will be settled exclusively by the Federal Courts of Mexico City, Federal District.

PARAGUAY

Jurisdiction: *The following is added after the first sentence:*

Any litigation arising from this Statement of Limited Warranty will be settled exclusively by the courts of the city of Asuncion.

PERU

Jurisdiction: *The following is added after the first sentence:*

Any litigation arising from this Statement of Limited Warranty will be settled exclusively by the Judges and Tribunals of the Judicial District of Lima, Cercado.

Limitation of Liability: *The following is added at the end of this section:* In accordance with Article 1328 of the Peruvian Civil Code the limitations and exclusions specified in this section will not apply to damages caused by IBM's willful misconduct ("dolo") or gross negligence ("culpa inexcusable").

URUGUAY

Jurisdiction: *The following is added after the first sentence:*

Any litigation arising from this Statement of Limited Warranty will be settled exclusively by the City of Montevideo Court's Jurisdiction.

VENEZUELA

Jurisdiction: *The following is added after the first sentence:*

Any litigation arising from this Statement of Limited Warranty will be settled exclusively by the Courts of the Metropolitan Area Of the City of Caracas.

NORTH AMERICA

How to Obtain Warranty Service: *The following is added to this Section:*

To obtain warranty service from IBM in Canada or the United States, call 1-800-IBM-SERV (426-7378).

CANADA

Limitation of Liability: *The following replaces item 1 of this section:*

1. damages for bodily injury (including death) or physical harm to real property and tangible personal property caused by IBM's negligence; and

Governing Law: *The following replaces "laws of the country in which you acquired the Machine" in the first sentence:*

laws in the Province of Ontario.

UNITED STATES

Governing Law: *The following replaces "laws of the country in which you acquired the Machine" in the first sentence:*

laws of the State of New York.

ASIA PACIFIC

AUSTRALIA

What this Warranty Covers: *The following paragraph is added to this Section:*

The warranties specified in this Section are in addition to any rights you may have under the Trade Practices Act 1974 or other similar legislation and are only limited to the extent permitted by the applicable legislation.

Limitation of Liability: *The following is added to this Section:*

Where IBM is in breach of a condition or warranty implied by the Trade Practices Act 1974 or other similar legislation, IBM's liability is limited to the repair or replacement of the goods or the supply of equivalent goods. Where that condition or warranty relates to right to sell, quiet possession or clear title, or the goods are of a kind ordinarily acquired for personal, domestic or household use or consumption, then none of the limitations in this paragraph apply.

Governing Law: *The following replaces "laws of the country in which you acquired the Machine" in the first sentence:*

laws of the State or Territory.

CAMBODIA AND LAOS

Governing Law: *The following replaces "laws of the country in which you acquired the Machine" in the first sentence:*

laws of the State of New York, United States of America.

CAMBODIA, INDONESIA, AND LAOS

Arbitration: *The following is added under this heading:*

Disputes arising out of or in connection with this Statement of Limited Warranty shall be finally settled by arbitration which shall be held in Singapore in accordance with the Arbitration Rules of Singapore International Arbitration Center ("SIAC Rules") then in effect. The arbitration award shall be final and binding for the parties without appeal and shall be in writing and set forth the findings of fact and the conclusions of law. The number of arbitrators shall be three, with each side to the dispute being entitled to appoint one arbitrator. The two arbitrators appointed by the parties shall appoint a third arbitrator who shall act as chairman of the proceedings. Vacancies in the post of chairman shall be filled by the president of the SIAC. Other vacancies shall be filled by the respective nominating party. Proceedings shall continue from the stage they were at when the vacancy occurred. If one of the parties refuses or otherwise fails to appoint an arbitrator within 30 days of the date the other party appoints its, the first appointed arbitrator shall be the sole arbitrator, provided that the arbitrator was validly and properly appointed. All proceedings shall be conducted, including all documents

presented in such proceedings, in the English language. The English language version of this Statement of Limited Warranty prevails over any other language version.

HONG KONG S.A.R. OF CHINA AND MACAU S.A.R. OF CHINA

Governing Law: *The following replaces "laws of the country in which you acquired the Machine" in the first sentence:*
laws of Hong Kong Special Administrative Region of China.

INDIA

Limitation of Liability: *The following replaces items 1 and 2 of this Section:*

1. liability for bodily injury (including death) or damage to real property and tangible personal property will be limited to that caused by IBM's negligence; and
2. as to any other actual damage arising in any situation involving nonperformance by IBM pursuant to, or in any way related to the subject of this Statement of Limited Warranty, the charge paid by you for the individual Machine that is the subject of the claim. For purposes of this item, the term "Machine" includes Machine Code and Licensed Internal Code ("LIC").

Arbitration: *The following is added under this heading*

Disputes arising out of or in connection with this Statement of Limited Warranty shall be finally settled by arbitration which shall be held in Bangalore, India in accordance with the laws of India then in effect. The arbitration award shall be final and binding for the parties without appeal and shall be in writing and set forth the findings of fact and the conclusions of law. The number of arbitrators shall be three, with each side to the dispute being entitled to appoint one arbitrator. The two arbitrators appointed by the parties shall appoint a third arbitrator who shall act as chairman of the proceedings. Vacancies in the post of chairman shall be filled by the president of the Bar Council of India. Other vacancies shall be filled by the respective nominating party. Proceedings shall continue from the stage they were at when the vacancy occurred. If one of the parties refuses or otherwise fails to appoint an arbitrator within 30 days of the date the other party appoints its, the first appointed arbitrator shall be the sole arbitrator, provided that the arbitrator was validly and properly appointed. All proceedings shall be conducted, including all documents presented in such proceedings, in the English language. The English language version of this Statement of Limited Warranty prevails over any other language version.

JAPAN

Governing Law: *The following sentence is added to this Section:*

Any doubts concerning this Statement of Limited Warranty will be initially resolved between us in good faith and in accordance with the principle of mutual trust.

MALAYSIA

Limitation of Liability: The word "*SPECIAL*" in item 3 of the fifth paragraph is deleted.

NEW ZEALAND

What this Warranty Covers: *The following paragraph is added to this Section:*

The warranties specified in this section are in addition to any rights you may have under the Consumer Guarantees Act 1993 or other legislation which cannot be excluded or limited. The Consumer Guarantees Act 1993 will not apply in respect of any goods which IBM provides, if you require the goods for the purposes of a business as defined in that Act.

Limitation of Liability: *The following is added to this Section:*

Where Machines are not acquired for the purposes of a business as defined in the Consumer Guarantees Act 1993, the limitations in this Section are subject to the limitations in that Act.

PEOPLE'S REPUBLIC OF CHINA (PRC)

Governing Law: *The following replaces "laws of the country in which you acquired the*

Machine" in the first sentence:

laws of the State of New York, United States of America (except when local law requires otherwise).

PHILIPPINES

Limitation of Liability: *Item 3 in the fifth paragraph is replaced by the following: SPECIAL (INCLUDING NOMINAL AND EXEMPLARY DAMAGES), MORAL, INCIDENTAL, OR INDIRECT DAMAGES FOR ANY ECONOMIC CONSEQUENTIAL DAMAGES; OR*

Arbitration: The following is added: under this heading

Disputes arising out of or in connection with this Statement of Limited Warranty shall be finally settled by arbitration which shall be held in Metro Manila, Philippines in accordance with the laws of the Philippines then in effect. The arbitration award shall be final and binding for the parties without appeal and shall be in writing and set forth the findings of fact and the conclusions of law. The number of arbitrators shall be three, with each side to the dispute being entitled to appoint one arbitrator. The two arbitrators appointed by the parties shall appoint a third arbitrator who shall act as chairman of the proceedings. Vacancies in the post of chairman shall be filled by the president of the Philippine Dispute Resolution Center, Inc.. Other vacancies shall be filled by the respective nominating party. Proceedings shall continue from the stage they were at when the vacancy occurred. If one of the parties refuses or otherwise fails to appoint an arbitrator within 30 days of the date the other party appoints its, the first appointed arbitrator shall be the sole arbitrator, provided that the arbitrator was validly and properly appointed. All proceedings shall be conducted, including all documents presented in such proceedings, in the English language. The English language version of this Statement of Limited Warranty prevails over any other language version.

SINGAPORE

Limitation of Liability: *The words "SPECIAL" and "ECONOMIC" in item 3 in the fifth paragraph are deleted.*

EUROPE, MIDDLE EAST, AFRICA (EMEA)

THE FOLLOWING TERMS APPLY TO ALL EMEA COUNTRIES:

The terms of this Statement of Limited Warranty apply to Machines purchased from IBM or an IBM reseller.

How to Obtain Warranty Service:

*Add the following paragraph in **Western Europe** (Andorra, Austria, Belgium, Cyprus, Czech Republic, Denmark, Estonia, Finland, France, Germany, Greece, Hungary, Iceland, Ireland, Italy, Latvia, Liechtenstein, Lithuania, Luxembourg, Malta, Monaco, Netherlands, Norway, Poland, Portugal, San Marino, Slovakia, Slovenia, Spain, Sweden, Switzerland, United Kingdom, Vatican State, and any country subsequently added to the European Union, as from the date of accession):* The warranty for Machines acquired in Western Europe shall be valid and applicable in all Western Europe countries provided the Machines have been announced and made available in such countries. If you purchase a Machine in one of the Western European countries, as defined above, you may obtain warranty service for that Machine in any of those countries from either (1) an IBM reseller approved to perform warranty service or (2) from IBM, provided the Machine has been announced and made available by IBM in the country in which you wish to obtain service. If you purchased a Personal Computer Machine in Albania, Armenia, Belarus, Bosnia and Herzegovina, Bulgaria, Croatia, Czech Republic, Georgia, Hungary, Kazakhstan, Kyrgyzstan, Federal Republic of Yugoslavia, Former Yugoslav Republic of Macedonia (FYROM), Moldova, Poland, Romania, Russia, Slovak Republic, Slovenia, or Ukraine, you may obtain warranty service for that Machine in any of those countries from either (1) an IBM reseller approved to perform warranty service or (2) from IBM. If you purchase a Machine in a Middle Eastern or African country, you may obtain warranty service for that Machine from the IBM entity within the country of purchase,

if that IBM entity provides warranty service in that country, or from an IBM reseller, approved by IBM to perform warranty service on that Machine in that country. Warranty service in Africa is available within 50 kilometers of an IBM approved service provider. You are responsible for transportation costs for Machines located outside 50 kilometers of an IBM approved service provider.

Governing Law:

The phrase "the laws of the country in which you acquired the Machine" is replaced by:

1) "the laws of Austria" in **Albania, Armenia, Azerbaijan, Belarus, Bosnia-Herzegovina, Bulgaria, Croatia, Georgia, Hungary, Kazakhstan, Kyrgyzstan, FYR Macedonia, Moldova, Poland, Romania, Russia, Slovakia, Slovenia, Tajikistan, Turkmenistan, Ukraine, Uzbekistan, and FR Yugoslavia;** 2) "the laws of France" in **Algeria, Benin, Burkina Faso, Cameroon, Cape Verde, Central African Republic, Chad, Comoros, Congo Republic, Djibouti, Democratic Republic of Congo, Equatorial Guinea, French Guiana, French Polynesia, Gabon, Gambia, Guinea, Guinea-Bissau, Ivory Coast, Lebanon, Madagascar, Mali, Mauritania, Mauritius, Mayotte, Morocco, New Caledonia, Niger, Reunion, Senegal, Seychelles, Togo, Tunisia, Vanuatu, and Wallis & Futuna;** 3) "the laws of Finland" in **Estonia, Latvia, and Lithuania;** 4) "the laws of England" in **Angola, Bahrain, Botswana, Burundi, Egypt, Eritrea, Ethiopia, Ghana, Jordan, Kenya, Kuwait, Liberia, Malawi, Malta, Mozambique, Nigeria, Oman, Pakistan, Qatar, Rwanda, Sao Tome, Saudi Arabia, Sierra Leone, Somalia, Tanzania, Uganda, United Arab Emirates, the United Kingdom, West Bank/Gaza, Yemen, Zambia, and Zimbabwe;** and 5) "the laws of South Africa" in **South Africa, Namibia, Lesotho and Swaziland.**

Jurisdiction: *The following exceptions are added to this section:*

1) In **Austria** the choice of jurisdiction for all disputes arising out of this Statement of Limited Warranty and relating thereto, including its existence, will be the competent court of law in Vienna, Austria (Inner-City); 2) in **Angola, Bahrain, Botswana, Burundi, Egypt, Eritrea, Ethiopia, Ghana, Jordan, Kenya, Kuwait, Liberia, Malawi, Malta, Mozambique, Nigeria, Oman, Pakistan, Qatar, Rwanda, Sao Tome, Saudi Arabia, Sierra Leone, Somalia, Tanzania, Uganda, United Arab Emirates, West Bank/Gaza, Yemen, Zambia, and Zimbabwe** all disputes arising out of this Statement of Limited Warranty or related to its execution, including summary proceedings, will be submitted to the exclusive jurisdiction of the English courts; 3) in **Belgium and Luxembourg**, all disputes arising out of this Statement of Limited Warranty or related to its interpretation or its execution, the law, and the courts of the capital city, of the country of your registered office and/or commercial site location only are competent; 4) in **France, Algeria, Benin, Burkina Faso, Cameroon, Cape Verde, Central African Republic, Chad, Comoros, Congo Republic, Djibouti, Democratic Republic of Congo, Equatorial Guinea, French Guiana, French Polynesia, Gabon, Gambia, Guinea, Guinea-Bissau, Ivory Coast, Lebanon, Madagascar, Mali, Mauritania, Mauritius, Mayotte, Morocco, New Caledonia, Niger, Reunion, Senegal, Seychelles, Togo, Tunisia, Vanuatu, and Wallis & Futuna** all disputes arising out of this Statement of Limited Warranty or related to its violation or execution, including summary proceedings, will be settled exclusively by the Commercial Court of Paris; 5) in **Russia**, all disputes arising out of or in relation to the interpretation, the violation, the termination, the nullity of the execution of this Statement of Limited Warranty shall be settled by Arbitration Court of Moscow; 6) in **South Africa, Namibia, Lesotho and Swaziland**, both of us agree to submit all disputes relating to this Statement of Limited Warranty to the jurisdiction of the High Court in Johannesburg; 7) in **Turkey** all disputes arising out of or in connection with this Statement of Limited Warranty shall be resolved by the Istanbul Central (Sultanahmet) Courts and Execution Directorates of Istanbul, the Republic of Turkey; 8) in each of the following specified countries, any legal claim arising out of this Statement of Limited Warranty will be brought before, and settled exclusively by, the competent court of a) Athens for **Greece**, b) Tel Aviv-Jaffa for **Israel**, c) Milan for **Italy**, d) Lisbon for **Portugal**,

and e) Madrid for **Spain**; and 9) **in the United Kingdom**, both of us agree to submit all disputes relating to this Statement of Limited Warranty to the jurisdiction of the English courts.

Arbitration: *The following is added under this heading:*

In Albania, Armenia, Azerbaijan, Belarus, Bosnia-Herzegovina, Bulgaria, Croatia, Georgia, Hungary, Kazakhstan, Kyrgyzstan, FYR Macedonia, Moldova, Poland, Romania, Russia, Slovakia, Slovenia, Tajikistan, Turkmenistan, Ukraine, Uzbekistan, and FR Yugoslavia all disputes arising out of this Statement of Limited Warranty or related to its violation, termination or nullity will be finally settled under the Rules of Arbitration and Conciliation of the International Arbitral Center of the Federal Economic Chamber in Vienna (Vienna Rules) by three arbitrators appointed in accordance with these rules. The arbitration will be held in Vienna, Austria, and the official language of the proceedings will be English. The decision of the arbitrators will be final and binding upon both parties. Therefore, pursuant to paragraph 598 (2) of the Austrian Code of Civil Procedure, the parties expressly waive the application of paragraph 595 (1) figure 7 of the Code. IBM may, however, institute proceedings in a competent court in the country of installation. **In Estonia, Latvia and Lithuania** all disputes arising in connection with this Statement of Limited Warranty will be finally settled in arbitration that will be held in Helsinki, Finland in accordance with the arbitration laws of Finland then in effect. Each party will appoint one arbitrator. The arbitrators will then jointly appoint the chairman. If arbitrators cannot agree on the chairman, then the Central Chamber of Commerce in Helsinki will appoint the chairman.

EUROPEAN UNION (EU)

THE FOLLOWING TERMS APPLY TO ALL EU COUNTRIES:

The warranty for Machines acquired in EU countries is valid and applicable in all EU countries provided the Machines have been announced and made available in such countries.

How to Obtain Warranty Service: *The following is added to this section:*

To obtain warranty service from IBM in EU countries, see the telephone listing in Part 3 - Warranty Information.

You may contact IBM at the following address:

IBM Warranty & Service Quality Dept.

PO Box 30

Spango Valley

Greenock

Scotland PA16 0AH

CONSUMERS

Consumers have legal rights under applicable national legislation governing the sale of consumer goods. Such rights are not affected by the warranties provided in this Statement of Limited Warranty.

AUSTRIA, DENMARK, FINLAND, GREECE, ITALY, NETHERLANDS, NORWAY, PORTUGAL, SPAIN, SWEDEN AND SWITZERLAND

Limitation of Liability: *The following replaces the terms of this section in its entirety:*

Except as otherwise provided by mandatory law:

1. IBM's liability for any damages and losses that may arise as a consequence of the fulfillment of its obligations under or in connection with this Statement of Limited Warranty or due to any other cause related to this Statement of Limited Warranty is limited to the compensation of only those damages and losses proved and actually arising as an immediate and direct consequence of the non-fulfillment of such obligations (if IBM is at fault) or of such cause, for a maximum amount equal to the charges you paid for the Machine. For purposes of this item, the term "Machine" includes Machine Code and Licensed Internal Code ("LIC").

The above limitation shall not apply to damages for bodily injuries (including death) and damages to real property and tangible personal property for which IBM is legally liable.

2. **UNDER NO CIRCUMSTANCES IS IBM, ITS SUPPLIERS OR RESELLERS LIABLE FOR ANY OF THE FOLLOWING, EVEN IF INFORMED OF THEIR POSSIBILITY: 1) LOSS OF, OR DAMAGE TO, DATA; 2) INCIDENTAL OR INDIRECT DAMAGES, OR FOR ANY ECONOMIC CONSEQUENTIAL DAMAGES; 3) LOST PROFITS, EVEN IF THEY ARISE AS AN IMMEDIATE CONSEQUENCE OF THE EVENT THAT GENERATED THE DAMAGES; OR 4) LOSS OF BUSINESS, REVENUE, GOODWILL, OR ANTICIPATED SAVINGS.**

FRANCE AND BELGIUM

Limitation of Liability: *The following replaces the terms of this section in its entirety:*

Except as otherwise provided by mandatory law:

1. IBM's liability for any damages and losses that may arise as a consequence of the fulfillment of its obligations under or in connection with this Statement of Limited Warranty is limited to the compensation of only those damages and losses proved and actually arising as an immediate and direct consequence of the non-fulfillment of such obligations (if IBM is at fault), for a maximum amount equal to the charges you paid for the Machine that has caused the damages. For purposes of this item, the term "Machine" includes Machine Code and Licensed Internal Code ("LIC").

The above limitation shall not apply to damages for bodily injuries (including death) and damages to real property and tangible personal property for which IBM is legally liable.

2. **UNDER NO CIRCUMSTANCES IS IBM, ITS SUPPLIERS OR RESELLERS LIABLE FOR ANY OF THE FOLLOWING, EVEN IF INFORMED OF THEIR POSSIBILITY: 1) LOSS OF, OR DAMAGE TO, DATA; 2) INCIDENTAL OR INDIRECT DAMAGES, OR FOR ANY ECONOMIC CONSEQUENTIAL DAMAGES; 3) LOST PROFITS, EVEN IF THEY ARISE AS AN IMMEDIATE CONSEQUENCE OF THE EVENT THAT GENERATED THE DAMAGES; OR 4) LOSS OF BUSINESS, REVENUE, GOODWILL, OR ANTICIPATED SAVINGS.**

THE FOLLOWING TERMS APPLY TO THE COUNTRY SPECIFIED:

AUSTRIA

The provisions of this Statement of Limited Warranty replace any applicable statutory warranties.

What this Warranty Covers: *The following replaces the first sentence of the first paragraph of this section:*

The warranty for an IBM Machine covers the functionality of the Machine for its normal use and the Machine's conformity to its Specifications.

The following paragraphs are added to this section:

The limitation period for consumers in action for breach of warranty is the statutory period as a minimum. In case IBM or your reseller is unable to repair an IBM Machine, you can alternatively ask for a partial refund as far as justified by the reduced value of the unrepaired Machine or ask for a cancellation of the respective agreement for such Machine and get your money refunded.

The second paragraph does not apply.

What IBM Will Do to Correct Problems: *The following is added to this section:*

During the warranty period, IBM will reimburse you for the transportation charges for the delivery of the failing Machine to IBM.

Limitation of Liability: *The following paragraph is added to this section:*

The limitations and exclusions specified in the Statement of Limited Warranty will not apply to damages caused by IBM with fraud or gross negligence and for express warranty.

The following sentence is added to the end of item 2:

IBM's liability under this item is limited to the violation of essential contractual terms in cases of ordinary negligence.

EGYPT

Limitation of Liability: *The following replaces item 2 in this section:*

as to any other actual direct damages, IBM's liability will be limited to the total amount you paid for the Machine that is the subject of the claim. For purposes of this item, the term "Machine" includes Machine Code and Licensed Internal Code ("LIC").

Applicability of suppliers and resellers (unchanged).

FRANCE

Limitation of Liability: *The following replaces the second sentence of the first paragraph of this section:*

In such instances, regardless of the basis on which you are entitled to claim damages from IBM, IBM is liable for no more than: (items 1 and 2 unchanged).

GERMANY

What this Warranty Covers: *The following replaces the first sentence of the first paragraph of this section:*

The warranty for an IBM Machine covers the functionality of the Machine for its normal use and the Machine's conformity to its Specifications.

The following paragraphs are added to this section:

The minimum warranty period for Machines is twelve months. In case IBM or your reseller is unable to repair an IBM Machine, you can alternatively ask for a partial refund as far as justified by the reduced value of the unrepaired Machine or ask for a cancellation of the respective agreement for such Machine and get your money refunded.

The second paragraph does not apply.

What IBM Will Do to Correct Problems: *The following is added to this section:*

During the warranty period, transportation for delivery of the failing Machine to IBM will be at IBM's expense.

Limitation of Liability: *The following paragraph is added to this section:*

The limitations and exclusions specified in the Statement of Limited Warranty will not apply to damages caused by IBM with fraud or gross negligence and for express warranty.

The following sentence is added to the end of item 2:

IBM's liability under this item is limited to the violation of essential contractual terms in cases of ordinary negligence.

HUNGARY

Limitation of Liability: *The following is added at the end of this section:*

The limitation and exclusion specified herein shall not apply to liability for a breach of contract damaging life, physical well-being, or health that has been caused intentionally, by gross negligence, or by a criminal act. The parties accept the limitations of liability as valid provisions and state that the Section 314.(2) of the Hungarian Civil Code applies as the acquisition price as well as other advantages arising out of the present Statement of Limited Warranty balance this limitation of liability.

IRELAND

What this Warranty Covers: *The following is added to this section:*

Except as expressly provided in these terms and conditions, all statutory conditions, including all warranties implied, but without prejudice to the generality of the foregoing all warranties implied by the Sale of Goods Act 1893 or the Sale of Goods and Supply of Services Act 1980 are hereby excluded.

Limitation of Liability: *The following replaces the terms of section in its entirety:*

For the purposes of this section, a "Default" means any act, statement, omission, or negligence on the part of IBM in connection with, or in relation to, the subject matter of this

Statement of Limited Warranty in respect of which IBM is legally liable to you, whether in contract or tort. A number of Defaults which together result in, or contribute to, substantially the same loss or damage will be treated as one Default occurring on the date of occurrence of the last such Default. Circumstances may arise where, because of a Default, you are entitled to recover damages from IBM. This section sets out the extent of IBM's liability and your sole remedy.

1. IBM will accept unlimited liability for death or personal injury caused by the negligence of IBM
2. Subject always to the **Items for Which IBM is Not Liable** below, IBM will accept unlimited liability for physical damage to your tangible property resulting from the negligence of IBM.
3. Except as provided in items 1 and 2 above, IBM's entire liability for actual damages for any one Default will not in any event exceed the greater of 1) EUR 125,000, or 2) 125% of the amount you paid for the Machine directly relating to the Default.

Items for Which IBM is Not Liable

Save with respect to any liability referred to in item 1 above, under no circumstances is IBM, its suppliers or resellers liable for any of the following, even if IBM or they were informed of the possibility of such losses:

1. loss of, or damage to, data;
2. special, indirect, or consequential loss; or
3. loss of profits, business, revenue, goodwill, or anticipated savings.

SLOVAKIA

Limitation of Liability: *The following is added to the end of the last paragraph:*

The limitations apply to the extent they are not prohibited under §§ 373-386 of the Slovak Commercial Code.

SOUTH AFRICA, NAMIBIA, BOTSWANA, LESOTHO AND SWAZILAND

Limitation of Liability: *The following is added to this section:*

IBM's entire liability to you for actual damages arising in all situations involving nonperformance by IBM in respect of the subject matter of this Statement of Warranty will be limited to the charge paid by you for the individual Machine that is the subject of your claim from IBM.

UNITED KINGDOM

Limitation of Liability: *The following replaces the terms of this section in its entirety:*

For the purposes of this section, a "Default" means any act, statement, omission, or negligence on the part of IBM in connection with, or in relation to, the subject matter of this Statement of Limited Warranty in respect of which IBM is legally liable to you, whether in contract or tort. A number of Defaults which together result in, or contribute to, substantially the same loss or damage will be treated as one Default. Circumstances may arise where, because of a Default, you are entitled to recover damages from IBM. This section sets out the extent of IBM's liability and your sole remedy.

1. IBM will accept unlimited liability for:
 - a. death or personal injury caused by the negligence of IBM; and
 - b. any breach of its obligations implied by Section 12 of the Sale of Goods Act 1979 or Section 2 of the Supply of Goods and Services Act 1982, or any statutory modification or re-enactment of either such Section.
2. IBM will accept unlimited liability, subject always to the **Items for Which IBM is Not Liable** below, for physical damage to your tangible property resulting from the negligence of IBM.

3. IBM's entire liability for actual damages for any one Default will not in any event, except as provided in items 1 and 2 above, exceed the greater of 1) Pounds Sterling 75,000, or 2) 125% of the total purchase price payable or the charges for the Machine directly relating to the Default.

These limits also apply to IBM's suppliers and resellers. They state the maximum for which IBM and such suppliers and resellers are collectively responsible.

Items for Which IBM is Not Liable

Save with respect to any liability referred to in item 1 above, under no circumstances is IBM or any of its suppliers or resellers liable for any of the following, even if IBM or they were informed of the possibility of such losses:

1. loss of, or damage to, data;
2. special, indirect, or consequential loss; or
3. loss of profits, business, revenue, goodwill, or anticipated savings.

Part 3 - Warranty Information

This Part 3 provides information regarding the warranty applicable to your Machine, including the warranty period and type of warranty service IBM provides.

Warranty Period

The warranty period may vary by country or region and is specified in the table below.

NOTE: "Region" means either Hong Kong or Macau Special Administrative Region of China.

C400 PROJECTOR

Country or Region of Purchase	Warranty Period	Type of Warranty Service
Worldwide	3 years	7

C400 PROJECTOR LAMP

Country or Region of Purchase	Warranty Period	Type of Warranty Service
Worldwide	3 months	7

A warranty period of 3 years on parts and 3 years on labor means that IBM provides warranty service without charge for parts and labor during the 3 year warranty period.

A warranty period of 3 months on parts and 3 months on labor means that IBM provides warranty service without charge for parts and labor during the 3 month warranty period.

Types of Warranty Service

If required, IBM provides repair or exchange service depending on the type of warranty service specified for your Machine in the above table and as described below. Warranty service may be provided by your reseller if approved by IBM to perform warranty service. Scheduling of service will depend upon the time of your call and is subject to parts availability. Service levels are response time objectives and are not guaranteed. The specified level of warranty service may not be available in all worldwide locations, additional charges may apply outside IBM's normal service area, contact your local IBM representative or your reseller for country and location specific information.

1. **Customer Replaceable Unit ("CRU") Service**

IBM provides replacement CRUs to you for you to install. CRU information and replacement instructions are shipped with your Machine and are available from IBM at any time on your request. Installation of Tier 1 CRUs is your responsibility. If IBM installs a Tier 1 CRU at your request, you will be charged for the installation. You may install a Tier 2 CRU yourself or request IBM to install it, at no additional charge, under the type of warranty service designated for your Machine. IBM specifies in the materials shipped with a replacement CRU whether a defective CRU must be returned to IBM. When return is required, 1) return instructions and a container are shipped with the replacement CRU, and 2) you may be charged for the replacement CRU if IBM does not receive the defective CRU within 30 days of your receipt of the replacement.

2. On-site Service

IBM or your reseller will either repair or exchange the failing Machine at your location and verify its operation. You must provide suitable working area to allow disassembly and reassembly of the IBM Machine. The area must be clean, well lit and suitable for the purpose. For some Machines, certain repairs may require sending the Machine to an IBM service center.

3. Courier or Depot Service *

You will disconnect the failing Machine for collection arranged by IBM. IBM will provide you with a shipping container for you to return your Machine to a designated service center. A courier will pick up your Machine and deliver it to the designated service center. Following its repair or exchange, IBM will arrange the return delivery of the Machine to your location. You are responsible for its installation and verification.

4. Customer Carry-In or Mail-In Service

You will deliver or mail as IBM specifies (prepaid unless IBM specifies otherwise) the failing Machine suitably packaged to a location IBM designates. After IBM has repaired or exchanged the Machine, IBM will make it available for your collection or, for Mail-in Service, IBM will return it to you at IBM's expense, unless IBM specifies otherwise. You are responsible for the subsequent installation and verification of the Machine.

5. CRU and On-site Service

This type of Warranty Service is a combination of Type 1 and Type 2 (see above).

6. CRU and Courier or Depot Service

This type of Warranty Service is a combination of Type 1 and Type 3 (see above).

7. CRU and Customer Carry-In or Mail-In Service

This type of Warranty Service is a combination of Type 1 and Type 4 (see above).

When a 5, 6 or 7 type of warranty service is listed, IBM will determine which type of warranty service is appropriate for the repair.

* This type of service is called ThinkPad EasyServ or EasyServ in some countries. The IBM Machine Warranty worldwide web site at http://www.ibm.com/servers/support/machine_warranties/ provides a worldwide overview of IBM's Limited Warranty for Machines, a Glossary of IBM definitions, Frequently Asked Questions (FAQs) and Support by Product (Machine) with links to Product Support pages. **The IBM Statement of Limited Warranty is also available on this site in 29 languages.** To obtain warranty service contact IBM or your IBM reseller. In Canada or the United States, call 1-800-IBM-SERV (426-7378). In Canada or the United States, call 1-800-IBM-SERV (426-7378). For other countries, see the telephone numbers below.

Phone numbers are subject to change without notice. For the latest phone number list, go to <http://www.ibm.com/pc/support> and click **Support Phone List**.

Country or Region	Telephone Number	Country or Region	Telephone Number
Africa	+44 (0) 1475 555 055	Japan	Desktop: 0120-887-870 <ul style="list-style-type: none"> Overseas calls: 81-46-266-1084 ThinkPad: 0120-887-874 <ul style="list-style-type: none"> Overseas calls: 81-46-266-1084 IntelliStation and xSeries: 81-46-266-1358 PC Software: 0120-558-695 <ul style="list-style-type: none"> Overseas calls: 81-44-200-8666
Argentina	0800-666-0011	Luxembourg	298-977-5063
Australia	131-426	Malaysia	(60) 3-7727-7800
Austria	01-24592-5901	Mexico	001-866-434-2080
Bolivia	0800-0189	Middle East	+44 (0) 1475 555 055
Belgium	Dutch: 02-210 9820 French: 02-210 9800	Netherlands	020-514 5770
Brazil	55-11-3889-8986	New Zealand	0800-446-149
Canada	English: 1-800-565-3344 French: 1-800-565-3344 In Toronto: 416-383-3344	Nicaragua	255-6658
Chile	800-224-488	Norway	66 81 11 00
China	800-810-1818	Panama	206-6047
China (Hong Kong and S.A.R.)	Home PC: 852-2825-7799 Commercial PC: 852-8205-0333	Peru	0-800-50-866
Colombia	980-912-3021	Philippines	(63) 2-995-2225
Costa Rica	284-3911	Portugal	21-892-7147
Denmark	45 20 82 00	Russia	095-940-2000
Dominican Republic	566-4755 or 566-5161 ext. 8201 Toll Free within the Dominican Republic: 1-200-1929	Singapore	(65) 1-800-840-9911
Ecuador	1-800-426911 (option #4)	Spain	91-714-7983
El Salvador	250-5696	Sweden	08-477 4420

Country or Region	Telephone Number	Country or Region	Telephone Number
Finland	09-459 69 60	Switzerland	058-333-0900
France	02 38 55 74 50	Taiwan	886-2-8723-9799
Germany	07032-1549 201	Thailand	(66) 2-273-4000
Guatemala	335-8490	Turkey	00-800-446-32-041
Honduras	Tegucigalpa & Sand Pedro Sula: 232-4222 San Pedro Sula: 552-2234	United Kingdom	0-1475-555 055
India	1600-44-6666	United States	1-800-IBM-SERV (1-800-426-7378)
Indonesia	(62) 21-523-8535	Uruguay	000-411-005-6649
Ireland	01-815-9202	Venezuela	0-800-100-2011
Italy	01-815-9202	Vietnam	Ho Chi Minh: (84) 8-829-5160 Hanoi: (84) 4-843-6675

Príloha F. Notices

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Electronic emission notices

IBM C400 PROJECTOR

Federal Communications Commission (FCC) statement

Note: This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses, and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult an IBM authorized dealer or service representative for help.

Properly shielded and grounded cables and connectors must be used in order to meet FCC emission limits. Proper cables and connectors are available from IBM authorized dealers. IBM is not responsible for any radio or television interference caused by using other than recommended cables and connectors or by unauthorized changes or modifications to this equipment. Unauthorized changes or modifications could void the user's authority to operate the equipment.

This device complies with Part 15 of the FCC Rules. Operation is subject to the following two conditions: (1) this device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.

Responsible party:

International Business Machines Corporation
New Orchard Road
Armonk, NY 10504
Telephone: 1-919-543-2193

FC Tested To Comply
With FCC Standards
FOR HOME OR OFFICE USE

Industry Canada Class B emission compliance statement

This Class B digital apparatus complies with Canadian ICES-003.

Avis de conformité a la réglementation d'Industrie Canada

Cet appareil numérique de la classe B est conforme à la norme NMB-003 du Canada.

Deutsche EMV-Direktive (electromagnetische Verträglichkeit)

Zulassungsbcheinigung laut dem Deutschen Gesetz über die elektromagnetische Verträglichkeit von Geräten (EMVG) vom 30. August 1995 (bzw. der EMC EG Richtlinie 89/336):

Dieses Gerät ist berechtigt in Übereinstimmung mit dem Deutschen EMVG das EG-Konformitätszeichen - CE - zu führen. Verantwortlich für die Konformitätserklärung nach Paragraph 5 des EMVG ist die:

IBM Deutschland Informationssysteme GmbH, 70548 Stuttgart.

Informationen in Hinsicht EMVG Paragraph 3 Abs. (2) 2:

Das Gerät erfüllt die Schutzanforderungen nach EN 55024:1998 und EN 55022:1998 Klasse B.
--

EN 55022 Hinweis:

“Wird dieses Gerät in einer industriellen Umgebung betrieben (wie in EN 55022:B festgelegt), dann kann es dabei eventuell gestört werden. In solch einem FA11 ist der Abstand bzw. die Abschirmung zu der industriellen Störquelle zu vergrößern.”

Anmerkung:

Um die Einhaltung des EMVG sicherzustellen sind die Geräte, wie in den IBM Handbüchern angegeben, zu installieren und zu betreiben.

European Union - emission directive

This product is in conformity with the protection requirements of EU Council Directive 89/336/ECC on the approximation of the laws of the Member States relating to electromagnetic compatibility.

IBM can not accept responsibility for any failure to satisfy the protection requirements resulting from a non-recommended modification of the product, including the fitting of non-IBM option cards.

This product has been tested and found to comply with the limits for Class B Information Technology Equipment according to European Standard EN 55022. The limits for Class B equipment were derived for typical residential environments to provide reasonable protection against interference with licensed communication devices.

Union Européenne - Directive Conformité électromagnétique

Ce produit est conforme aux exigences de protection de la Directive 89/336/EEC du Conseil de l'UE sur le rapprochement des lois des États membres en matière de compatibilité électromagnétique.

IBM ne peut accepter aucune responsabilité pour le manquement aux exigences de protection résultant d'une modification non recommandée du produit, y compris l'installation de cartes autres que les cartes IBM.

Ce produit a été testé et il satisfait les conditions de l'équipement informatique de Classe B en vertu de Standard européen EN 55022. Les conditions pour l'équipement de Classe B ont été définies en fonction d'un contexte résidentiel ordinaire afin de fournir une protection raisonnable contre l'interférence d'appareils de communication autorisés.

Unione Europea - Directiva EMC (Conformidad electromagnética)

Este producto satisface los requisitos de protección del Consejo de la UE, Directiva 89/336/CEE en lo que a la legislación de los Estados Miembros sobre compatibilidad electromagnética se refiere.

IBM no puede aceptar responsabilidad alguna si este producto deja de satisfacer dichos requisitos de protección como resultado de una modificación no recomendada del producto, incluyendo el ajuste de tarjetas de opción que no sean IBM.

Este producto ha sido probado y satisface los límites para Equipos Informáticos Clase B de conformidad con el Estándar Europeo EN 55022. Los límites para los equipos de Clase B se han establecido para entornos residenciales típicos a fin de proporcionar una protección razonable contra las interferencias con dispositivos de comunicación licenciados.

Union Europea - Normativa EMC

Questo prodotto è conforme alle normative di protezione ai sensi della Direttiva del Consiglio dell'Unione Europea 89/336/CEE sull'armonizzazione legislativa degli stati membri in materia di compatibilità elettromagnetica.

IBM non accetta responsabilità alcuna per la mancata conformità alle normative di protezione dovuta a modifiche non consigliate al prodotto, compresa l'installazione di schede e componenti di marca diversa da IBM.

Le prove effettuate sul presente prodotto hanno accertato che esso rientra nei limiti stabiliti per le apparecchiature di informatica Classe B ai sensi della Norma Europea EN 55022. I limiti delle apparecchiature della Classe B sono stati stabiliti al fine di fornire ragionevole protezione da interferenze mediante dispositivi di comunicazione in concessione in ambienti residenziali tipici.

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Identifikačné číslo: 73P3195

Vytlačené v USA

(1P) P/N: 73P3195

