Your PDF Guides

You can read the recommendations in the user guide, the technical guide or the installation guide for HITACHI DESKSTAR 120GXP. You'll find the answers to all your questions on the HITACHI DESKSTAR 120GXP in the user manual (information, specifications, safety advice, size, accessories, etc.). Detailed instructions for use are in the User's Guide.

User manual HITACHI DESKSTAR 120GXP
User guide HITACHI DESKSTAR 120GXP
Operating instructions HITACHI DESKSTAR 120GXP
Instructions for use HITACHI DESKSTAR 120GXP
Instruction manual HITACHI DESKSTAR 120GXP

Capacity and performance leadership with proven quality

HITACHI
Inspire the Next

Hitachi Deskstar 120GXP
hard disk drives

Highlights

▸ *Provides industry-leading performance at 7,200rpm, 592Mbits/sec internal transfer rate, and 8.5ms average seek time. These combine to enable leading sustained data rate of up to 48MB/sec*

▸ *Capacities range from up to 40GB to 120GB. This increases disk capacity by 100 percent over previous generation.*

▸ *Thermal monitor helps provide accurate data writes and reads over the full system temperature range*

▸ *Meets PC Design Checklist for Windows® XP*

▸ *Industry-leading low power*

The Deskstar 120GXP incorporates both new and proven technologies to boost system performance. This drive provides the capacity and performance to handle a wide range of advanced desktop and audio/video applications. Additionally, features such as low acoustics, low power, and Tagged Command Queuing make this drive ideal for non-PC, high performance, special applications.

Technology for capacity and performance
Antiferromagnetically-coupled (AFC) media enables higher capacities per square inch of data surface.
Glass disks provide smoother media for the ever-shrinking bit size.
Three-disk design provides leading 120GB capacity at 7,200rpm.
Specially-designed onboard processor provides faster speeds than the previous generation.

Advanced buffer management bursts data to the system at up to 100MB/sec. Enhanced servo system provides reliable head positioning.

AFC and glass disk technologies enable increased areal density. Thus, the Deskstar provides the necessary capacities using fewer heads and disks, which means fewer components and better reliability. The superior areal density combines with the faster processor and streamlined cache buffer to enable award-winning performance for both the Deskstar and your system. Enhancements to the servo system and thermal monitor help to enable accurate data storage and retrieval.

Deskstar 120GXP matches the drive capacity and performance guidelines for Microsoft® Windows® XP—40GB minimum and 7,200rpm.

Technology for reliability
Load/unload head ramps
Glass media
Ceramic spindle motor bearings
Differential read channel
Internal thermal monitor
Drive Fitness Test (DFT)
S.M.A.R.T Self Test

These combined technologies enable popular capacity points and are also designed to increase reliability. Deskstar drives continue to utilize proven storage technology such as TrueTrack servo and No-ID sector formatting.

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Manual abstract:

Thermal monitor helps provide accurate data writes and reads over the full system temperature range Meets PC Design Checklist for Windows® XP Industry-leading low power The Deskstar 120GXP incorporates both new and proven technologies to boost system performance. This drive provides the capacity and performance to handle a wide range of advanced desktop and audio/video applications. Additionally, features such as low acoustics, low power, and Tagged Command Queuing make this drive ideal for non-PC, high performance, special applications. Advanced buffer management bursts data to the system at up to 100MB/sec. Enhanced servo system provides reliable head positioning. AFC and glass disk technologies enable increased areal density. Thus, the Deskstar provides the necessary capacities using fewer heads and disks, which means fewer components and better reliability. The superior areal density combines with the faster processor and streamlined cache buffer to enable award-winning performance for both the Deskstar and your system. Enhancements to the servo system and thermal monitor help to enable accurate data storage and retrieval. @@@@Glass disks provide smoother media for the ever-shrinking bit size.

Three-disk design provides leading 120GB capacity at 7 ,200rpm. @@areal density (Gbits/sq. inch) Max. @@Mbits/sec) Interface transfer rate (max. @@7 1 592 100 48 to 23 (Zones 0-30) 8.

5 1. 1 15 2MB 7 ,200 4. 7 1 592 100 47 to 22.9 (Zones 0-30) .5 8.

8 1. @@(3 disks) 1 3. @@@@@@@@@@@@Actual results may vary. This publication is for general guidance only. Photographs may show design models. Power Requirement Dissipation Startup current (max. A) Idle (W) +5 VDC (+/- 5%), +12 VDC (+10%/-8%) +5 VDC (+/- 5%), +12 VDC (+10%/-8%) 2.0 (+12V) & 0.74 (+5V) 6.2 (3 disks) 2.

0 (+12V) & 0.74 (+5V) 4.9 Height (mm) Width (mm) Depth (mm) Weight (max. g) 25.4 101.6 146 640 25.4 101.6 146 640 Environmental characteristics Operating Ambient temperature Relative humidity (non-condensing) Max. wet bulb (non-condensing) Shock (half sine wave, 2ms) Vibration (random (RMS)) Non-operating Ambient temperature Relative humidity (non-condensing) Max. wet bulb (non-condensing) Shock (half sine wave, 2ms) Vibration (random (RMS)) 1 5° to 55° C 8% to 90% 29.

4° C 55G 0.67G for horizontal 0.56G for vertical -40° to 65° C 5% to 95% 35° C 400G (1 or 2 disks); 350G (3 disks) 1.04G rms (XYZ) 5° to 55° C 8% to 90% 29.4° C 55G 0.

67G for horizontal 0.56G for vertical -40° to 65° C 5% to 95% 35° C 350G 1.04G rms (XYZ) This product data does not constitute a warranty. @@@@3 Includes command overhead. 4 Upper 184.

5 KB used for drive firmware. G225-7005-01 .

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