

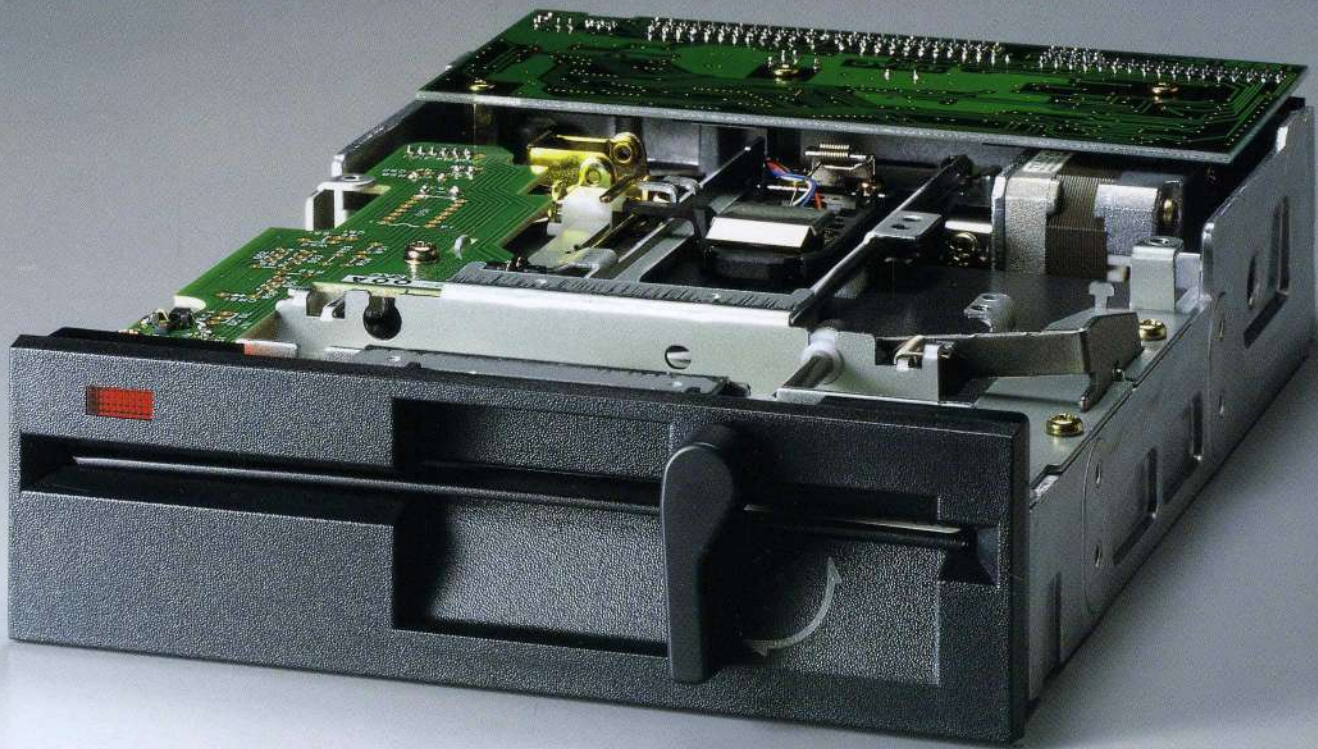
# TEAC®

# FD-55GS

MAR 12 1992

## 5 1/4-inch Mini Floppy Disk Drive

- Built-in intelligent SCSI interface controller
- Simple SCSI bus connection
- Reduced loads on host
- 1.6MBytes capacity
- Half-height size, excellent space factor



## 5 1/4" FDD with SCSI Interface Controller

With the intelligence to take much of the load off the host computer, this new half-height floppy disk drive FD-55GS measures only 146W×43.8H×203D(mm), including the built-in SCSI interface controller, and provides 1.6MB capacity.

# 5 1/4-inch Mini Floppy Disk Drive **FD-55GS**

## Built-In SCSI Interface Controller

Host computer loads are reduced, and system expansibility boosted, by the built-in SCSI interface, with its intelligent host interface capabilities.

## Half-Height Size

The FD-55GS, including its SCSI interface controller, fits into a half-height slot, making this intelligent drive a natural choice for personal computers.

## Built-In Data Buffer for High-Speed Data Transfer

The interface controller's 30KB buffer makes possible data transfer speeds to the host as high as 1MB/sec, reducing waiting time and host loads.

## Low Power Consumption 1.4W Standby, 4.4W Operating

Almost all drive circuitry has been concentrated into a single LSI, reducing component count and achieving high electrical efficiency. Remember that these low standby and operating powers include the interface controller!

## Full Compatibility With Other Media

Despite the FD-55GS's normal 1.6MB

capacity (double sided, 96tpi), its multi-format capabilities let it handle read and write operations on five different standards, from 250KB (single-sided, 48tpi) on up.

Medium to be used	Normal density				High density
	48 tpi		96 tpi		
Track density	48 tpi		96 tpi		
Double sided/single sided	Single sided	Double sided	Single sided	Double sided	Double sided
Memory capacity	250 KB	500 KB	500 KB	1 MB	1.6 MB
Data transfer rate (K bit/sec)	250				500
Disk rotation speed	300 rpm				360 rpm
Data read	○	○	○	○	○
Data write	—	—	○	○	○

## Low Power Heat Generation High Reliability

TEAC's combination of efficient electronic circuits in custom LSI with a high-performance drive motor achieves low power consumption and correspondingly high accuracy and reliability.

## High-Precision Head Positioning

The high-precision hybrid stepping motor combined with a highly precise band actuator permits highly accurate head positioning.

## Improved, Simple Mechanism

## Complies with UL, CSA Standards

## SPECIFICATIONS

### SCSI Interface Controller

Interface: SCSI (ANSI X3, 131-1986)

Data Transfer Rates:

Drive side; 250Kbits/sec, 500Kbits/sec

VFO Lock Range: ±5%

Formats: 0.25—1.6MB modes; IBM format

Data Buffer Capacity: 30KBytes

Terminator: Mounted (removable)

SCSI ID: SCSI ID=0 (when shipped)

Parity Stop: ON/OFF possible (OFF when shipped)

### Drive

Recording Method: FM or MFM

Media: High density (2HD), or normal density (2DD) 5 1/4" floppy disks

Data Transfer Rates:

500 Kbits/sec (high density)

250/300 Kbits/sec (normal density)

Tracks/Disk: 154(160)(high density)/160 (normal density)

Track Density: 96tpi

Number of Cylinders: 77 (80) (high density)/80 (normal density)

Data Capacity (Kbytes)	Unformatted;	High density	Normal density
		Formatted (16 sectors/track)	1,604
		1,182.7 (1,228.8)	655.36

Note: Figures in brackets for 15 sectors/track.

Specifications apply when the MFM recording method is used.

Rotation Speed: 300/360rpm

Average Access Time (inc. settling time):

91 (94)msec (2HD)/94msec (2DD)

Track-to-track Time: 3msec

Settling Time: 15msec

Motor Starting Time: 400msec (300rpm)/500msec (360rpm)

Average Latency Time: 100msec (300rpm)/83.3msec (360rpm)

Index: 1/revolution

Error Rate: Soft read error; 1/10<sup>6</sup> bits or less (two re-tries)

Hard read error; 1/10<sup>12</sup> bits or less

Seek error; 1/10<sup>6</sup> seeks or less

### General

MTBF: 20,000 hours or more

MTTR: 30 minutes or less

Safety Standards: Complies with UL and CSA.

Ambient Temperature:

Operating; 4—46°C (40—115°F)

Storage; -22—60°C (-8—140°F)

Transportation; -40—65°C (-40—149°F)

Temperature Gradient:

Operating; 15°C/hr or less (non condensing)

Storage & transportation; 30°C/hr or less, (non-condensing)

Relative Humidity:

Operating; 20—80% (non condensing)

(Max. wet bulb temperature 29°C [84°F])

Storage; 10—90% (non condensing)

(Max. wet bulb temperature 40°C [104°F])

Transportation; 5—95% (non condensing)

(Max. wet bulb temperature 45°C [113°F])

Vibration:

Operating; 0.5G or less (55Hz or less)

0.25G or less (55—500Hz or less)

Transportation; 2G or less (100Hz or less)

Shock:

Operating; 5G or less (11msec or less)

Transportation; 50G or less (11msec or less)

Power Requirements:

+12VDC ±5%; Permissible ripple; 200mVp-p or less

Standby; 0.01A typ./0.02A max.

Operating; 0.22A typ./0.54A max.

+5VDC ±5%; Permissible ripple; 100mVp-p or less

Standby; 0.25A typ./0.32A max.

Operating; 0.35A typ./0.44A max.

Power consumption: Standby; 1.4W typ.

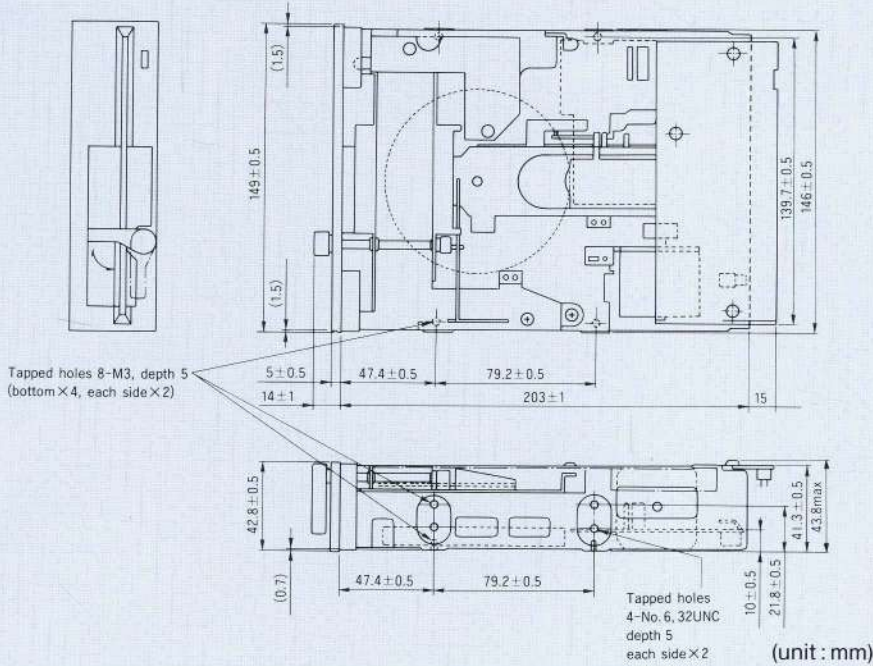
Operating; 4.4W typ.

Dimensions (W×H×D)(approx.):

146×43.8(max.)×203(mm) (5 3/4×1 3/4(max.)×8 [inch])

Weight (approx.): 1.2kg typ. (2.6lbs)

## Dimensions



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Features and specifications are subject to change without notice.

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