



Model 「G」 Model 「H」

Product Specification

Model: TMG-156FH01-01

TMH-156FH01-01

DMC Co. Ltd. https://www.dush.co.jp/english/

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Appendix: Outline drawings

• TMG-156FH01-01,TMH-156FH01-01 Drawing No. : SM3-002307-12

1. Summary

This is a touchscreen monitor equipped with 15.6" wide LCD touchscreen.

There are two type of touchscreens: analog resistive and projection capacitive.

Product will be referred to as TM herein

2. Product Model

	Specification			
Model	LCD	Touchscreen	Power Supply	USB HOST I/F*
	size	type		
TMG-156FH01-01		Projected	HDMI	USB3.0Type-B
TWG-150FH01-01	15.6"	capacitive type	ПОМІ	(USB2.0Type-B can be connected also)
TMH-156FH01-01	Wide	Analog	HDMI	USB3.0Type-B
1MH-130FH01-01		resistive type	ПОМІ	(USB2.0Type-B can be connected also)

^{*}Connect an USB cable when using as a touchscreen monitor.

3. Items Included in Package

The following items are included in the package:

TM main unit

1unit

4. Option items

■AC Adaptor

Model	Specification	
ATS065T-P120B15210	IN: 100~240VAC/50~60Hz	
	AC INLET: C14	
	AC cord: included (3P)	
	OUT: 12VDC 0~5A (60W)	
	DC Plug : Φ5.5xΦ2.1x7.5mm with thread locks	

[※] Please prepare an AC cord that conforms to the standards specified for the country or region in which it will be used.

5. Specification

5-1 Function

Items -		Specification			
		TMG-156FH01-01 TMH-156FH01-01			
	LCD Size		15.6inch Wide-size		
	Resolution		Full HD (1,920 (H) x1,080 (V) dot)		
	Display Area		344.16mm (W) ×193.59mm (H)	
	Pixel Pitch		0.17925mm (W) ×0.17925mm (H)	
LCD	Color		Approx. 16.77million colors		
LCD	View Angle	Vertical	178° (89°/89°)		
	(Typ.)	Horizontal	178° (89°/89°)		
	Brightness (Typ.)		390 cd/m ²	340 cd/m ²	
	Backlight Method		LED		
	Backlight Life (Typ.)		50,000) hours ^{※1}	
	Digital		HDMI 1.3b		
Input Signal	Maximum Input Resolution		Full HD (1,920 (H) x1,080 (V) dot)		
Input Signal	Horizontal So	canning Cycle	30KHz - 80KHz		
	Vertical Scanning Cycle		50Hz – 60Hz		

^{¾1 Time until surface brightness declines to 50% from the initial value at maximum brightness. (at ambient temperature of 25°C).}

5-2 Touchscreen

5-2-1 Projected Capacitive

Items	Specification	
items	TMG-156FH01-01	
Туре	Projected Capacitive	
Input Method	Finger	
Maximum Simultaneous Input	5 points ^{※1}	
Operating Life	Continuous Typing (finger input): 50 million times	
Communication Method	USB	
Supporting OS [*] 1	Microsoft® Windows® 10 (32bit/64bit) **2	
Supporting OS ^{*1}	Microsoft® Windows® 11 (32bit/64bit) **2	

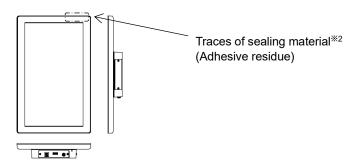
^{※1} Operation confirmed of gesture operation to 5 points.

^{※2} The standard Windows touchscreen driver can be used, but operations may become unstable depending on the environment installed. Please perform calibration according to the instructions in "Section 4.4 Calibration" in the Instruction Manual.

5-2-2 Analog Resistive

<u> </u>			
	Items	Specification	
	items	TMH-156FH01-01	
Туре		Analog Resistive	
Input Method		Finger or R0.8 Polyacetal pen	
Maximum Simultaneous Input		One point (Gesture supported)	
Operating Typing (Finger Input) Life Character input (by pen)		10 million times	
		100 thousand characters	
Communication Method		USB	
Supported O	2*1	Microsoft® Windows® 10 (32bit/64bit)	
Supported OS ^{**1}		Microsoft® Windows® 11 (32bit/64bit)	

%1 Dedicated driver installation required. Please refer to "Chapter 4 Touchscreen Setup Tool" in the Instruction Manual for details.



※2 Due to the structure of the touchscreen, sealing material may be visible at the edge (upper right corner viewed from the front) of the touchscreen.

Please refer to the Shipping Standards for details. (Please contact our sales representative).

5-3 Power

Items	Specification		
nems	TMG-156FH01-01	TMH-156FH01-01	
Rated Voltage	12VDC		
Voltage Tolerance	12VDC±10%		
Power Consumption	25W or lower		
SG-FG Connection	SG (Signal GND) and FG (Frame GND) are connected inside		
	the unit.		
	FG is connected to the VESA	mounting holes marked (🗓).	
	Connect Field GND t	o the FG accordingly.	

5-4 Environment

Itama	Specification		
Items	TMG-156FH01-01	TMH-156FH01-01	
Ambient Operating Temperature	0~40°C		
(Inside of cabinet and display side)	0~40		
Ambient Storage Temperature	-10~6	0°C	
Ambient Operating Usmidity	10%RH to 85%RH (Non-condensing, Wet bulb temperature is 39°Cor		
Ambient Operating Humidity	less)		
Ambient Storage Humidity	10%RH to 85%RH (Non-condensing, Wet bulb temperature is 39°Cor		
Ambient Storage Humidity	less)		
Corrosive Gas	Prohibited		
Dust	Prohibited		
Altitude Resistance (Operating Altitude)	800 to 1114hPa (Altitude	e of 2000m or lower)	
	5Hz to 9Hz Single a	mplitude: 3.5mm	
Vibration Resistance	9Hz to 150Hz Constant Accelerated Velocity 9.8m/s ²		
	10 times in each direction (X, Y, Z) (100minutes)		

5-5 Installation

Items	Specification			
items	TMG-156FH01-01	TMH-156FH01-01		
Installation	Standard installation: Vertical display installation			
Ilistallation	Vertical and horizontal display	Vertical and horizontal display installation can be changed. **1		
Structure	VESA 100 x 100mm compliant (M4 screw, Dept 8mm at max)			
Body Color	Black			
Protective Structure	Equivalent to IP55(Display side only) ^{*2}			
Cooling Method	Natural Cooling			
External Dimension	390 (W) x 245 (H) x 48 (D) mm			
Weight	Approx. 2,900g	Approx. 2,700g		

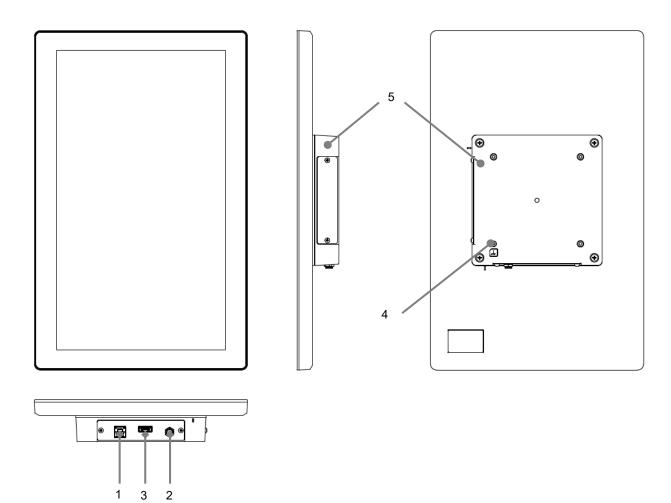
[%]1 By changing the mounting angle of the VESA box, the IF cable withdrawal direction can be changed freely. (Angle: 90degress)

Operation is not guaranteed under all conditions of actual use.

³² The VESA box and I/F cable are not drip-proof.

5-6 Name of Each Parts

5-6-1 TMG-156FH01-01, TMH-156FH01-01



NO	Name	Function
1	USB interface	USB3.0 Standard Type-B connector
'		(USB2.0 Type-B can be connected also)
2	Power Input	Input power (12VDC±10%)
3	Video input (Digital)	HDMI connector
4	FG terminal	Use to connect to Field GND
5	VESA box	Can be rotated by customer

6. External Interface

6-1 Image Input (Digital [HDMI])

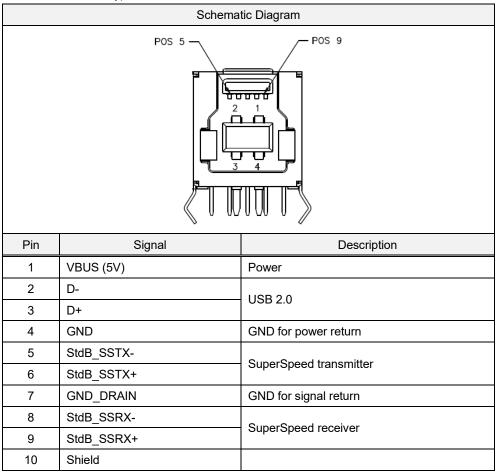
Interface: HDMI 1.3b

Schematic Diagram					
19 17 15 13 11 9 7 5 3 1 18 16 14 12 10 8 6 4 2					
Pin	Signal	Pin	Signal		
1	TMDS Data2+	2	TMDS Data2 Shield		
3	TMDS Data2-	4	TMDS Data1+		
5	TMDS Data1 Shield	6	TMDS Data1-		
7	TMDS Data0+	8	TMDS Data0 Shield		
9	TMDS Data0-	10	TMDS Clock+		
11	TMDS Clock Shield	12	TMDS Clock-		
13	CEC (NC)	14	Reserved		
15	DDC Clock	16	DDC Data		
17	DDC GND	18	+5V Power		
19	Hot Plug Detect				

6-2 USB HOST I/F (Upstream)

Interface: USB3.0

Connector: USB3.0 Type-B



6-3 Power Input

Connector: DC Jack

Compliant Plug: Outer diameter $\phi 5.5$, inner diameter $\phi 2.1$

Pin	Signal	Schematic
+	+12V	⊙ ⊖ € ⊕
_	GND	

7. Main Functions

7-1 Multi-scanning

Image is automatically scaled to match the input resolution and the LCD display resolution.

However, the scaling of image to fit the resolution may cause distortion of the input image and/or collapsing of the text.

7-2 Support Timing

No	Resolution	Aspect Ratio	Refresh Rate
1	640×480p	4:3	60Hz
2	720×480p	4:3	60Hz
3	800×600p	4:3	56Hz
4	800×600p	4:3	60Hz
5	1024×768p	4:3	60Hz
6	1280×720p	16:9	60Hz
7	1280×960p	4:3	60Hz
8	1280×1024p	5:4	60Hz
9	1600×900p	16:9	60Hz
10	1600×1200p	4:3	60Hz
11	1680×1050p	16:10	60Hz
12	1920×1080p	16:9	60Hz

8. Installation

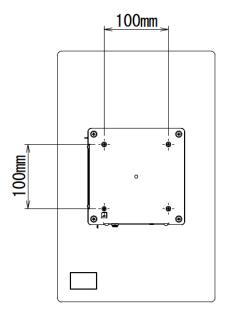
8-1 Mounting a "VESA Standard" Arm

Commercially available arms can be mounted

Please refer to the instruction manual of the arm for mounting instructions.

The dimensions of the mounting holes are as shown in the diagram below.

♦ VESA Standard 100mm×100mm



Fix with M4 screws. Torque range to tighten is 0.7 to 0.8N \cdot m.

Select M4 screws so that the penetration depth is 8mm or less from the back side of the TM case

9. Compliant Standards

9-1 RoHS Directives

- TM is compliant to the EU RoHS Directives.
- · Lead-free solder is used for mounting on printed wiring boards.

9-2 CE Marking

Compliant to the EU EMC Directives.

Compliant standards EMI: 61000-6-4: 2019

EMS: 61000-6-2: 2019

9-3 FCC

The FCC requires the following notes to be issued in accordance with the FCC guidelines.

Note:

This equipment has been tested and found to comply with the limits for a Class A digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference when the equipment is operated in a commercial environment. This equipment generates, uses, and can radiate radio frequency energy and, if not installed and used in accordance with the instruction manual, may cause harmful interference to radio communications. Operation of this equipment in a residential area is likely to cause harmful interference in which case the user is required to correct the interference at their own expense.

Changes or modifications to this unit that are not expressly approved by DMC could void the user's authority to operate the equipment.

Industry Canada requires the following note to be published:

Note:

This Class A digital apparatus complies with Canadian CAN ICES-3 (A) /NMB-3 (A).

9-4 UL Certification

Compliant to the below UL certifications.

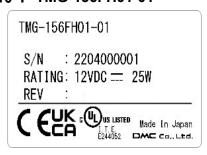
UL 62368-1, 2nd Ed, 2014-12-01

CAN/CSA C22.2 No. 62368-1-14, 2nd Ed-

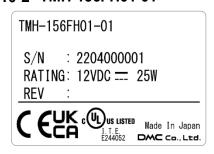
(Audio/video, information and communication technology equipment Part 1: Safety requirements)

10. Product Labels

10-1 TMG-156FH01-01



10-2 TMH-156FH01-01



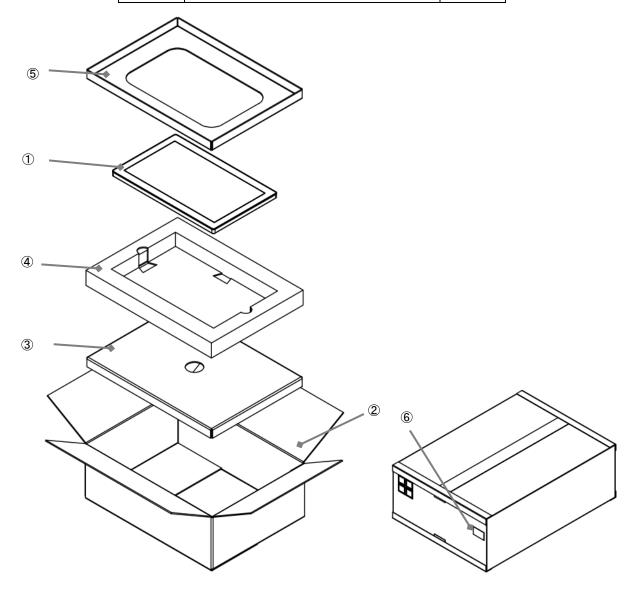
11. FCC Labels

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.

CAN ICES-3 (A)/NMB-3(A)

12. Packaging

No.	Part Name	Qty
1	TMG (H) Main Unit (in anti-static bag)	1
2	Outer box (Dimensions: W490xD348xH170)	1
3	Bottom Pad	1
4	Center Pad	1
(5)	Top Pad	1
6	Packaging label (Model)	1



13. Warranty

The warranty period is limited to 12 months (1 year) from the date of shipment. Any defects that occur upon normal use under the conditions specified herein will be repaired (factory repair) free of charge. (Warranty for any repair needed to the same repaired part of the same product is three months.)

You will be liable for all repair fees even within the warranty period for any conditions listed below.

- (1) Any malfunctions, defects, and/or damages that occurred during transport, transfer, or mishandling by the user after delivery.
- (2) Any malfunctions, defects, and/or damages caused by natural or human-made disaster.
- (3) If the product is used under any condition, environment, or method other than those specified in the specifications, catalogs, manuals, notes, and/or other documents.
- (4) Any replacement of consumables.
- (5) Any malfunctions, defects, and/or damages caused by connected equipment and/or usage of inappropriate consumables and media.
- (6) If the product is repaired, remodeled, modified, or disassembled by a party other than DMC Co., Ltd, or if a serial number label cannot be verified.
- (7) Any failure, damage, or malfunction is deemed to be caused on your behalf.

This warranty covers only the product itself. Any damages, on-site repairs, and replacements driven by the failure of the product, will be decided upon discussion by both parties as necessary.

14. Production Discontinuance

In the event of production discontinuance, an announcement will be made six months prior to the last possible order reception date.

15. Others

If you have comments or questions, please feel free to contact us.

Office hours: 9:00a.m to 5:00 p.m. (JST)

(Except Saturdays, Sundays, national holidays, and year-end and New Year holidays

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4th Edition August 2024

Published by DMC Co., Ltd.

Office hours: 9:00a.m to 5:00 p.m. (JST)

(Except Saturdays, Sundays, national holidays, and year-end and New Year holidays)

URL: https://www.dush.co.jp/english/

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