Contents in this document may change without prior notice. Please obtain the delivery specification for the final design.





7.0" Wide (WVGA)

Resistive Touchscreen Module with LCD

Simple Set Plus

TK-S Series

TK-SRA07BWV-01A4 Model:

Product Specification

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

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- Outline Drawing (SM3-002528-10)
- Appearance inspection standard (LCD Modules with Resistive Touchscreen)(22G4GX-00001E)

Downloads: https://www.dush.co.jp/english/download/

- Resistive Touch Screen Mounting Guidance (LST-series)
- Touch Screen Controller Specification: TSC-54/RU User's Guide

1 Summary

This is a "TK series Simple Set Plus" with 7.0" Wide resistive touchscreen sensor, controller, and LCD (Liquid Crystal Display) plus HDMI Board.

2 Product Model

		Specifica	ition	
Model	LCD size	Touchscreen	Bonding	Set Type
	(Resolution)	Туре	Method	Set Type
TK-SRA07BWV-01A4	7.0" Wide (WVGA)	Resistive	Air-bonding *	Simple Set Plus

^{*} Bonding of LCD and touchscreen with double-sided tape.

3 Components

Components	Name	Specification	Manufacturer	Model
TS+I CD	Touchscreen (TS)	Resistive	DMC	LST-070WB080A
TS+LCD	LCD	7.0" Wide	INNOLUX	G070ACE-L01
	Touchscreen controller	-	DMC	TSC-54/RU
Accessories	HDMI board	HDMI input	DMC	SWAD-A4
	Image cable (L: 200mm)	-	DMC	24E3E4-00012

4 Packaging Specification

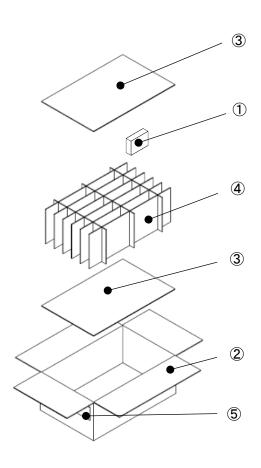
Depending on the number of shipments, individual packaging may be used instead of grouped packaging.

4-1 Grouped packaging

Box	Box Contents Specification	Size (W x D x H)		
Α	A TS+LCD Grouped packaging (10units/box)**		External dimension: 457×295×151	
В	Accessories	Grouped packaging (10pcs/box)**	External dimension: 457×295×151	

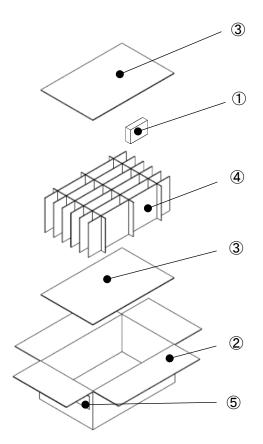
^{*}May not be as specified according to the quantity shipped.

Grouped Packaging Configuration (A)



No.	Name		Qty
	TS+LCD		
	(placed inside antistat	tic bag, placed inside	10
1	air-cushion bag)		10
	* Touchscreen with protective sheet		
2	Outer box		1
3	Top/Bottom pad		2
	Partition Set	Partition A	3
(4)	Partition B		6
⑤	Grouped packaging label		1

Grouped Packaging Configuration (B)



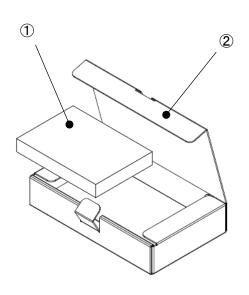
No.	Name		Qty
	HDMI board (placed	inside antistatic bag,	
	placed inside air-cushi	on bag)	
	Touchscreen controller		
1	(placed inside antistat	tic bag, placed inside	10
	air-cushion bag)		
	Image cable (placed inside antistatic bag,		
	placed inside air-cushion bag)		
2	Outer box		1
3	Top/Bottom pad		2
	Dortition Cot	Partition A	3
4	Partition Set	Partition B	6
(5)	Grouped packaging label		1

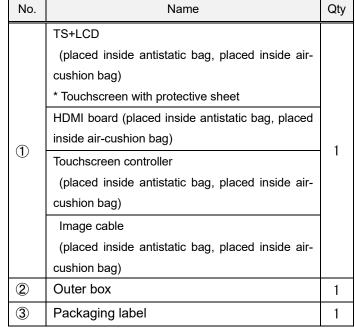
4-2 Individual Packaging

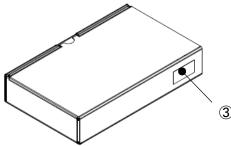
Box	Contents	Specification	Size (W x D x H)
С	TS+LCD, Accessories	Individual packaging (1unit/box)	External Dimension: 287 x 176 x 55

^{**}One box includes TS+LCD and accessories.

Individual Packaging Configuration(C)







5 Module Specification

5-1 Function

Item		Specification	units	
	Display device		7.0" Wide TFT LCD	-
	Display area (A	Active area)	152.4(W) ×91.44(H)	mm
	Pixels		800(W) ×480(H)	-
	Pixel pitch		0.1905(W) ×0.1905(H)	mm
	Color		16.7M	colors
LCD	Brightness (Typ	o.)	395	cd/m ²
	View angle	Vertical (Upper/Lower)	89 / 89	dog
	(Typ.)	Horizontal (Left/Right)	89 / 89	deg.
	Interface		LVDS	-
	Backlight method		LED, with backlight driver	-
	Backlight life*1		Min. 50,000	hours
	Touchscreen type		Analog 4-wire resistive	-
	Input method		Finger or R0.8 Polyacetal pen	-
	Maximum simultaneous input point		1 point	-
Tavahaanaa	On anating life	Continuous input (finger)	10 million times	
Touchscreen	Operating life	Continuous input (pen)	100,000	characters
	Communication	n Method	USB 2.0	-
	Supporting OS		*2	-
	The tail Bending Resistivity		1mm≦R *3	-
	Input image po	rt	HDMI (does not support HDCP)	-
HDMI board		Digital	HDMI 1.3b	-
הטואוו poard	Input Signal	Horizontal scan cycle	30K - 80K	Hz
		Vertical scan cycle	50 - 75	Hz

^{*1.} Time until the backlight brightness declines by 50% from the initial value when continuously turned on at maximum brightness at the ambient temperature of 25°C.

5-2 General Specification

Item		Specification
Dower	Input power voltage	12VDC±5%
Power	Power consumption	Max. 4.0W

Note: If the capacity of the power supply used is large, the drop in voltage when it is turned off will be gradual. When restarting, please turn on the power again after the power supply voltage becomes 0V.

^{*2.} Please refer to the "Touchscreen Controller OS Compatibility Table".

(https://www.dush.co.jp/english/download/driver-app/) (Touchscreen controller referenced: TSC-54/55)

^{*3.} Do not bend if R<1mm as it may break.

5-3 Environment

Item	Specification
Ambient operating temperature	0°C to 55°C
(Inside cabinet and display side)	
Ambient storage temperature	-20°C to 70°C
Ambient operating humidity	10%RH to 85%RH
	(Non-condensing. Wet-bulb temperature is 39 °C or less)
Ambient storage humidity	10%RH to 85%RH
	(Non-condensing. Wet-bulb temperature is 39 °C or less)
Dust	0.1mg/m³ or under (Conductive dust is prohibited)
Corrosive Gas	Corrosive gas is prohibited
Pollution Degree	Pollution Degree 2, for indoor use

5-4 Mechanical Specification

Item	Specification	
	TS (Touchscreen) + LCD	Approx. 240 g
Mass	Touchscreen controller	Approx. 8 g
	HDMI board	Approx. 30 g
External Measurements		
(TS (Touchscreen)) + LCD,	170.75(W)×110(H)×10.5(D) mm	
excluding protruding parts)		

5-5 Touchscreen Controller

For details, please refer to the downloadable document "Touch Screen Controller Specification: TSC-54/RU User's Guide" in the table of contents.

5-6 Touchscreen Driver

To obtain the touchscreen driver (DMT-DD), please download it from the following site.

URL: https://www.dush.co.jp/english/download/driver-app/

For DMT-DD installing directions, please refer to the User's Guide included in the downloaded files.

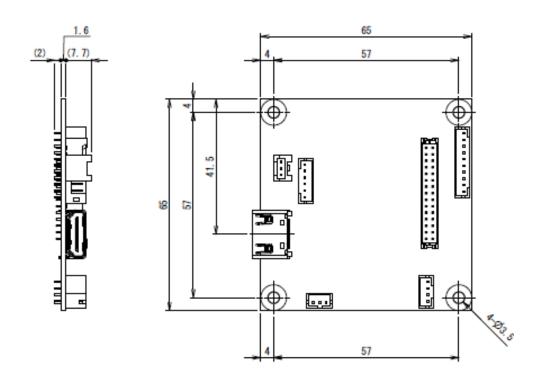
5-7 HDMI Board Specification

5-7-1 **Model**

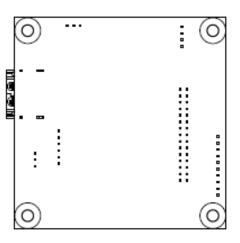
Model	Image Input Port	
SWAD-A4	HDMI ×1	

5-7-2 External Dimension

Item	Measurement
PCB outline (excluding connector)	65mm x 65 mm



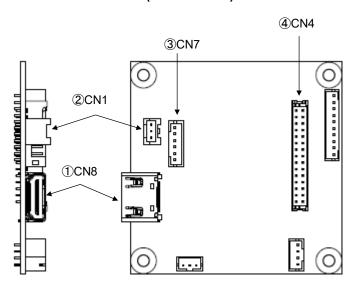




5-7-3 **Support Timing**

No	Resolution	Refresh Rate
1	640×480p	60/75Hz
2	800×480p	60/75Hz

5-7-4 Part Names (HDMI Board)



No.	Interface Name
1	Image input (HDMI)
2	12VDC Power input (Nylon connector)
3	LCD Backlight control
4	LCD Image output (LVDS)

Note: Use of other connectors not listed is prohibited. These are only internal adjustments for the manufacturer and may be excluded without prior notice.

5-7-5 Image Input (HDMI) I/F

Connector No.: HDMI Board CN8

Interface: HDMI Type A

Note: HDMI standard compliant

PIN No	Signal Name	PIN No	Signal Name	Schematic Diagram
1	TMDS Data2+	11	TMDS Clock Shield	
2	TMDS Data2 Shield*	12	TMDS Clock-	
3	TMDS Data2-	13	CEC (NC)	
4	TMDS Data1+	14	Reserved	
5	TMDS Data1 Shield	15	DDC Clock	19 17 15 13 11 9 7 5 3 1
6	TMDS Data1-	16	DDC Data	18 16 14 12 10 8 6 4 2
7	TMDS Data0+	17	DDC GND	
8	TMDS Data0 Shield	18	+5V Power	
9	TMDS Data0-	19	Hot Plug Detect	
10	TMDS Clock+	-	-	

^{*} Pin 2 has the function of TMDS Data 2 Shield and the role of detecting a PC connection. Please make sure that PCs whose HDMI Pin 2 has the role of detecting a monitor connection as well as this product cannot be connected.

5-7-6 12VDC Power Input I/F

Connector No.: HDMI Board CN1

Interface: +12VDC Input

Connector: MK242151P3(ZONE TECH TECHNOLOGY)

Note: Equivalent to B03B-PASK-1 (JST)

PIN No.	Signal Name	Schematic Diagram
1	+12V	
2	GND	
3	GND	1 3

5-7-7 LCD Backlight Control I/F

Connector No.: CN7

Connector: C1U20-060V-R (TACT PRECISION INDUSTRIAL)

Note: Equivalent to B6B-PH-K-S(LF)(SN) (JST)

PIN	Signal	Description			
No.	Name	Description			
1	12V	Packlight power			
2	12V	Backlight power			
3	GND	Ground			
4	BL_PWM	Backlight dimming input			
5	GND	Ground			
		Backlight ON/OFF			
6 BL_EN		High level: Backlight ON.			
		Low level : Backlight OFF.			

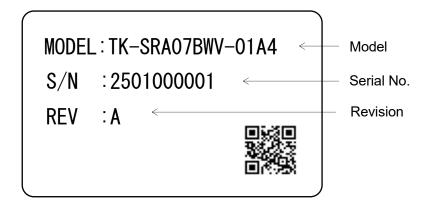
5-7-8 LCD(LVDS) Output I/F

Connector No.: CN4
Interface: LVDS

Connector: CI0130P1VDL-01-NH (CviLux)

PIN No.	Signal Name	PIN No.	Signal Name
1	Panel VCC 3.3V	16	GND
2	Panel VCC 3.3V	17	RXE0-
3	RXO0-	18	RXE0+
4	RXO0+	19	RXE1-
5	RXO1-	20	RXE1+
6	RXO1+	21	RXE2-
7	RXO2-	22	RXE2+
8	RXO2+	23	GND
9	GND	24	GND
10	GND -	25	RXEC-
11	RXOC-	26	RXEC+
12	RXOC+	27	RXE3-
13	RXO3-	28	RXE3+
14	RXO3+	29	NC
15	GND	30	NC

6 Product Label



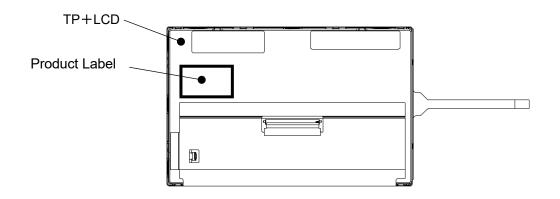
Above is an image example of the product label.

The below information will be indicated on the actual product.

· Model: Product Model

Serial No.: 10 digit control number

• Revision: Alphabets (A to Z) according to the product revision



7 Compliant Standards

7-1 RoHS

Compliant to EU RoHS directives.

8 Appearance inspection standard

Please refer to "Appearance inspection standard (LCD Modules with Resistive Touchscreen)" (22G4GX-00001E) for standards.

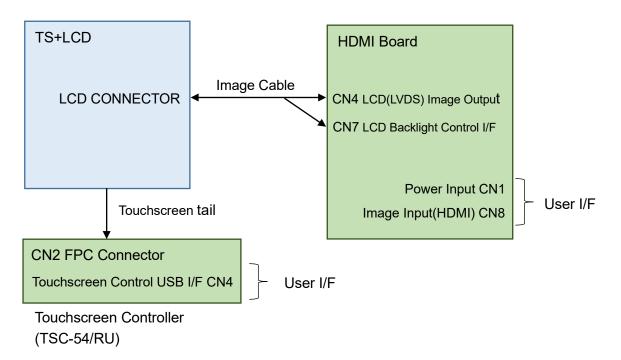
9 Option Items

■Controller Cable

Model	Specification
TSC-10/SC	USB cable for connecting host (USB-TypeA) and
	touchscreen controller (L:1800mm).

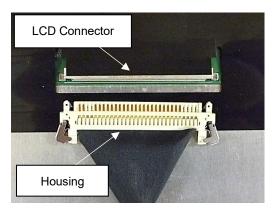
10 Connecting Method

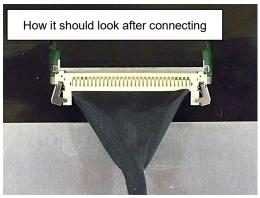
10-1 Connecting Diagram



10-2 Connecting Image Cable to LCD

(1) Slide the housing of the image cable into the connector on the backside of the LCD in the direction shown below.





10-3 Connecting Touchscreen tail to Touchscreen Controller

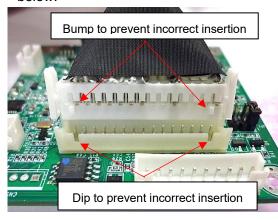
(1) Insert securely into the FPC connector of the touchscreen controller in the direction with the touchscreen tail visible.

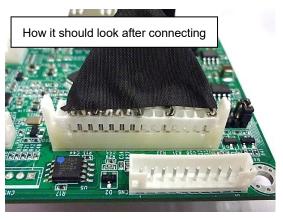




10-4 Connecting Image Cable to HDMI Board

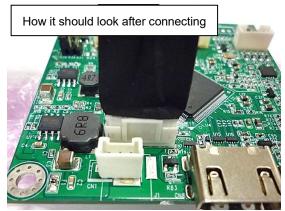
(1) Insert the image cables securely into the connector of the HDMI board while mating the Bump and Dip of each connector to prevent incorrect insertion, as shown in the pictures below.





(2) Insert the backlight cable securely into the connector of the HDMI board, as shown in the pictures below.

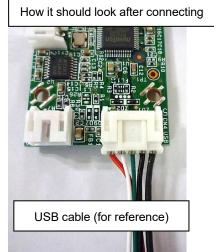




10-5 Connecting USB Cable to Touchscreen Controller

(1) Insert the USB cable securely into the connector of the touchscreen controller as shown in the pictures below.

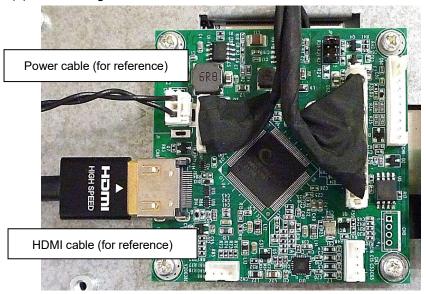




- * USB cable not included.
- * USB cable in the photos is the option item

10-6 Connecting Each Cable to User I/F of HDMI Board

(1) Connecting the HDMI cable and the Power cable



- ※Please insert securely.
- **HDMI cable/ Power cable not included.

11 Touchscreen Calibration

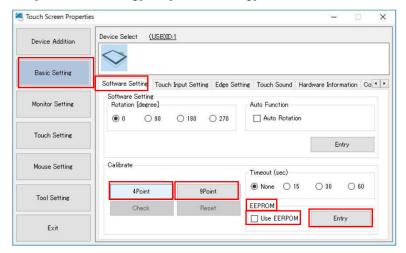
Touchscreen operations may become unstable depending on the installation environment due to its characteristics. To use it correctly, please perform calibration when building into a device.

Install DMT-DD from "5-6. Touchscreen Driver" when calibrating.

11-1 Resistive Touchscreen

[4 Point] or [9 Point] calibration • • • Coordinate calibration.

- (1) Start [DMT-DD].
- (2) Choose the [Software Setting] via [Basic Setting]



(3) Put the check mark [Use EEPROM] under [EEPROM] and click [Entry].

When [4 Point] or [9 Point] calibration is performed with the check mark, the correction data will be stored in the EEPROM of the touchscreen controller.

When [4 Point] or [9 Point] calibration is performed without the check mark, the correction data will be stored inside the computer.

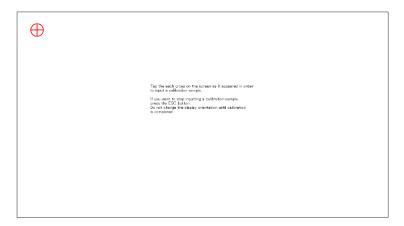
[4 Point] calibration is performed on this product at the factory shipment and the correction data is already stored in the EEPROM.

Putting the check mark [Use EEPROM] recalls the stored correction data from the EEPROM, but the touch coordinates may be misaligned depending on the combination of touchscreen and touchscreen controller.

Please perform the coordinate calibration according to the following procedure in case touch coordinates are out of alignment.

When using this product without the check mark [Use EEPROM], the stored correction data at the factory shipment will not be reflected, and accurate touch operations may not be possible.

(4) The below calibration image will be displayed when [4 Point] or [9 Point] calibration is clicked.



- (5) Touch the center of the marker displayed on the screen. Another marker will be displayed one after another. Do the same for all.
- (6) After all markers have been touched, adjustment is completed, and the following screen will be displayed.



(7) Click [OK] to finish the adjustment.

12 Terms of Use

12-1 Installing Module

- (1) For stable brightness and display, connect the GND via the mounting hole on the LCD.
- (2) Install the module so that no external pressure is applied to the LSI mounting area.
- (3) Make sure there are no warping and twisting when installing.
- (4) Make sure the specified temperature and humidity between the module and other structures or parts are taken into consideration to secure ventilation.
- (5) Take anti-static measures such as wearing earthing bands for grounding during assembly.
- (6) To prevent malfunction or damage, make sure the connectors of the connecting cables are inserted securely.
- (7) Remove the protection sheet on the touchscreen when installing.
- (8) Be sure to fix the LCD when mounting the module to a chassis. Since the LCD and the touchscreen are attached with double-sided tape, the LCD may fall off if only the touchscreen side is fixed.

12-2 Precautions for Use of LCD

- (1) The LCD contains irritants inside. If by any chance the liquid should flow out due to damage and come in contact with the skin, wash immediately under running water for more than 15 minutes and consult a physician.
- (2) LCD may have uneven brightness depending on the contents displayed. Please note that this is not a malfunction.
- (3) LCD elements may have spots (black spots/ bright spots). This is a characteristic of the LCD and not a malfunction.
- (4) When the screen is viewed outside the viewing angle, the color displayed may appear to change. This is a basic characteristic of the LCD and not a malfunction.
- (5) When the same image is displayed for a certain long period of time, the image may remain as an afterimage. This is a basic characteristic of the LCD. In order to avoid afterimages, use a screensaver or other similar functions to periodically change the displayed image and avoid displaying the same image for a long period of time.

12-3 Precautions for Resistive Touchscreen

- (1) Applications that require to press the same point on the touchscreen for a long time may cause malfunction due to the structure of the touchscreen.
 - The touchscreen is made of glass. Glass is easily damaged when scratched.
 - Please handle the touchscreen so that glass does not come in contact with other glass or hard objects.
- (2) The touchscreen is made of glass. Glass can easily break if scratched. Please handle the touchscreen so that glass does not hit other glass or hard objects.
- (3) Due to the characteristics of the touchscreen, the area slightly outside the display area may be detected as the coordinates of the edge of the touchscreen. Please design your application with this in mind.
- (4) The coordinates of the touchscreen may shift over time or depending on the environment in which it is used. If the touchscreen coordinates get misaligned, please perform the coordinate calibration.
- (5) Handle the edge of the glass with care as it may cause injuries.

12-4 Precautions for Static Electricity

- (1) Static Electricity may cause damage. Please take sufficient measurements when handling.
- (2) Operators should take anti-static measures such as wearing earthing bands for grounding.

12-5 Operating Precautions

(1) When used outside the specification standards, it may significantly affect the product quality and service life, such as degradation of display quality and generation of air bubbles. Please be sure to use it within the standards.

12-6 Storing Precautions

- (1) When storing the module, please avoid areas of high temperature and humidity. Especially when storing for a long period of time, make sure to store it in a place that is not exposed to direct sunlight and/or fluorescent lighting.
- (2) Please store the module in a condition where it is not subject to excessive load.

12-7 Handling Precautions

- (1) Do not leave the product in an environment with high temperature for a prolonged period. Make sure to avoid high humidity especially when the temperature is above 40°C. Failing to do so may cause polarizing plate deterioration, peeling, and/or bubbles to form.
- (2) If the surface of the polarizing plate becomes dirty, wipe it lightly with a soft material such as cotton cloth moistened with a small amount of ethyl alcohol.
- (3) Condensation on the polarizing plate during testing is prohibited to prevent staining, discoloration, or forming spots on the plate.
- (4) Disassembling the module and/or changing the volume of the module are prohibited. Doing so may cause malfunction and failure to perform correctly.
- (5) This product is intended for use in general electronic equipment and is not intended for use in special environments such as a corrosive gas atmosphere. If use in a special environment is anticipated, please evaluate thoroughly or take precautions not to expose the LCD to corrosive gases, etc.
- (6) This product is intended for use in standard applications (office equipment, industrial, communication, household equipment, etc.). Do not use the products for special applications that require extremely high reliability (e.g., aerospace, nuclear power control, medical applications for life support, etc.) or where malfunctions or failures may directly cause injuries to the human body.
- (7) Do not rub or press the product with hard or sharp objects.
- (8) Keep away from flames/fire.
- (9) Avoid wiping the product with excessive pressure.
- (10) Avoid locally rubbing the product with strong pressure. It may cause damage to the function of the touchscreen.
- (11) When operating the product, please avoid striking it with a hard object.
- (12) Do not forcibly fold or bend the product.
- (13) When storing the product, use the packing box and keep the product within the specified storage temperature and humidity and in an environment where it is free of excessive pressure and loads.
- (14) Avoid using and storing the product where it can be exposed to or come in contact with

liquids, organic solvents, and an acidic atmosphere.

- (15) Avoid using the product in direct sunlight.
- (16) Do not pull off or disassemble the product.
- (17) When handling the product, hold the main unit and not the touchscreen FPC (tail).
- (18) EMC (EMS, EMI) evaluation is not conducted at shipment. Please conduct an overall evaluation and confirmation after the product has been installed in your equipment.

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 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 man-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 malfunctions, defects, and/or damages caused by connected equipment and/or usage of inappropriate consumables and media.
- (5) 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.
- (6) Any failure, damage, or malfunction is deemed to be caused on your behalf.

This warranty covers only the product itself. No warranty is provided for damage, on-site repair, or replacement resulting from product failure.

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 Other

For comments or queries, feel free to contact us.

North South America area technical-global@dush.co.jp

Asia Pacific area <u>technical-global-asia@dush.co.jp</u>

Europe, Middle East, Africa area technical-global-eu@dush.co.jp

FAQ

https://www.dush.co.jp/english/support/faq/

1st Edition, April 2025

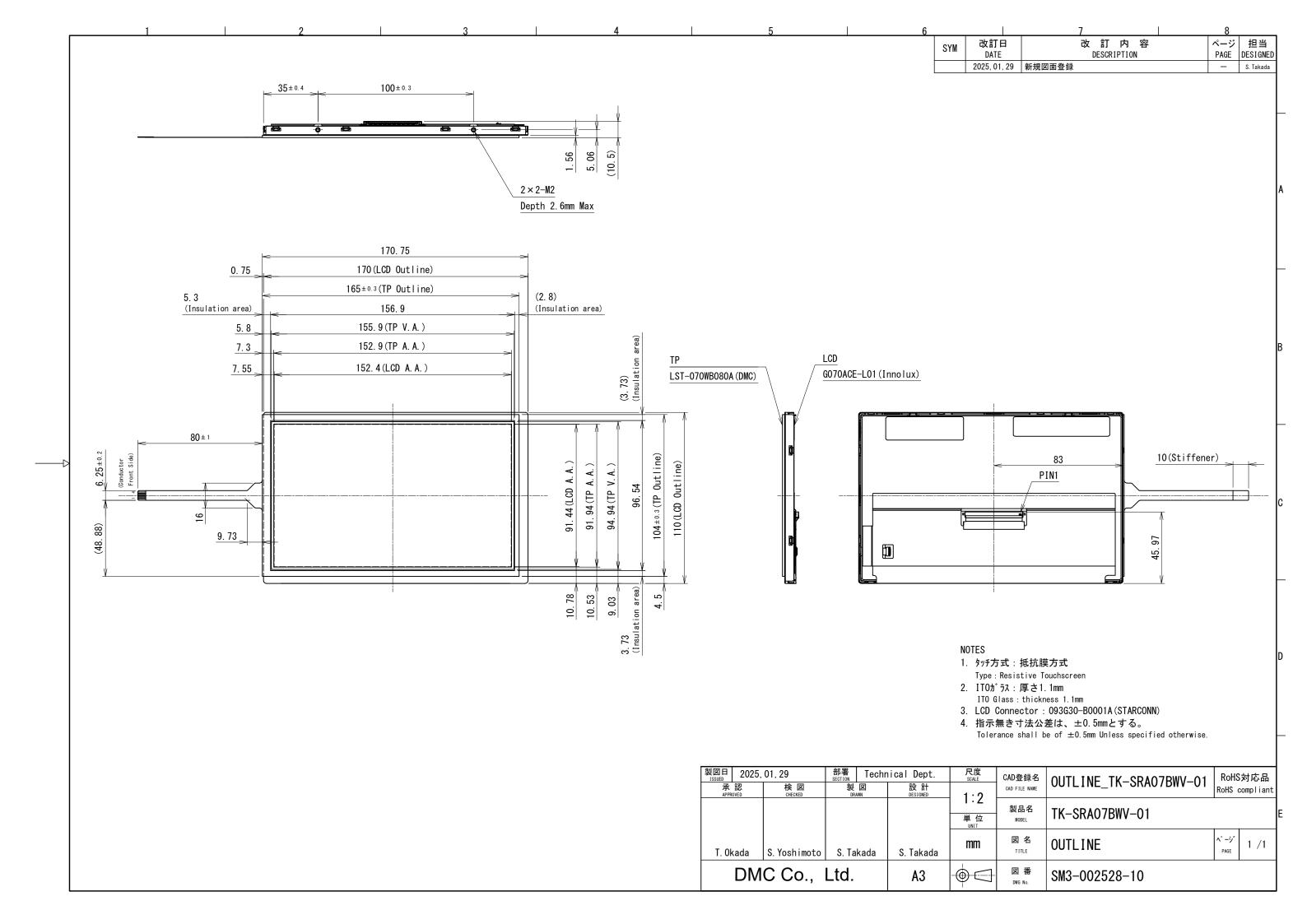
DMC Co., Ltd.

Business hours: 9:00a.m.~5:00p.m. (JST)

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

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Appearance Inspection Standard

LCD Modules with Resistive Touchscreen

Docume	ent No.	22	22G4GX-00001E		Page (Cover Excluded	2
			Revisio	n history		•
Revision	Date	Person in charge	Page		Descriptio	on
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Appearance Inspection Standard

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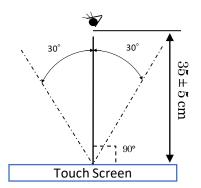
1.1 Inspection condition

Inspection Distance : 35 ± 5 cm

View Angle: Inspection under non-operating condition: ± 30°

Ambient Illumination: 500~2000 lux

Inspection time: 3~5 seconds



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1.2 Scratch, dust (W = width, L = length, D = average diameter = (longest + shortest)/2))

Total defects on each panel.

[14 inches < Size \le 22 inches] Within 10 pcs / panel

[$10 \text{ inches} < \text{Size} \le 14 \text{ inches}$] Within 7 pcs / panel

Size \leq 10 inches] Within 5 pcs / panel

Item	Width(mm)	Length(mm)	Acceptable Numbers
	0.05 <w≦0.1< th=""><th>L≦4</th><th>1pcs in φ30mm</th></w≦0.1<>	L≦4	1pcs in φ30mm
Linear(Scratch/Dust)	0.03 <w≦0.05< td=""><td>L≦10</td><td>2pcs in φ20mm</td></w≦0.05<>	L≦10	2pcs in φ20mm
Over 0.1mm in diameter refer to the Circular.	W≦0.03	L≦20	Acceptable
	0.3 <d≦< th=""><th>0.4</th><th>1pcs in viewing area *1</th></d≦<>	0.4	1pcs in viewing area *1
Circular(Scratch/Dust)	0.2 < D≦	0.3	$2pcs$ in $\phi 30mm$
	D≦0.2	2	Acceptable

Applied only in the Viewing Area.

Scratches or dusts in the outside of the Viewing Area are acceptable unless the electrical characteristics are affected.

- *1 Applied to 14 inches or larger panel.
- Acceptable if not noticeable on a black mat.

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Appearance Inspection Standard (2

1.3 Chip, crack (t = glass thickness) (applicable only for the glass)

Item	Size(mm)			Acceptable Numbers
Corner	X	X	≦3	2pcs /panel
		Y	≦ 3	
		Z	≦t	
Side	72	X	≦ 5	2 pcs /on one side
		Y	≦3	
		Z	≦t	
Crack				Not acceptable

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