



For Powerful Digital Marketing and Total Multimedia Solution

DS-66104/T
User's Guide version 6

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1. INTRODUCTION

DS-66104/T is a compact and rugged solution that features our reliable DV-66B MPEG-2 Player linked to a crisp 10.4" TFT-LCD. It can be programmed with several minutes of video (Depending of the size of your Compact Flash card), and up to 99 tracks. It is small and light-weighted enough to be wall mounted or integrated into a full size kiosk. DS-66104/T provides high quality hardware solution at an affordable price. The unit is available with or without touch panel.

DS-66104 - w/out touch screen feature

DS-66104T - with touch screen, see page 9 for touch screen specification.

Note: Should you have a need to convert non-touch model to touch screen model, please contact MedeaWiz technical support for assistance.

1.1 Package Contents

- DS-66104 MPEG-2 Digital Player
- AC adapter



1.2 Features (Latest Version HW 1.4 & FW 2.0C, Aug. 2007)

- 10.4" TFT LCD display and touch screen option
- Supports multiple format support: MPEG-2, MPEG-1, MPEG-4, MP3, and JPEG
- Repeat or Menu modes available
- Multiple track selection, up to 99 tracks
- Instant track response
- Stereo audio output and video output
- Auto-play when powered ON
- Logo screen customization available upon request
- Auto-mute after five minutes of no respond from input selection

Board-Level Features in addition to section 1.2

- Support S-Video & VGA output
- Support PIR sensor connection
- 44-pin pitch 2.0mm connection for using 2.5" hard drive
- 6 position DIP switch for multiple commands
- Support 16:9 file format
- Support RS232 Interface TTL control commands*
- JPEG file display animation

2. SETTING UP YOUR DS-66104

Step 1. How to program the contents to your CompactFlash® card

In order to setup your content to work with the DS-66104 you must have a **high speed CompactFlash®** card. To integrate your media content (MPEG-1, MPEG-2, MPEG-4 MP3, or JPEGs) you will need to use a CompactFlash® reader with your computer to load the appropriate files and setup. See programming below for more details.



Connect your card reader to your PC (note: be sure that the card reader driver is installed) and insert the CompactFlash® card (we recommend 128 MB minimum) into the reader. To program your multimedia content on to the media card, open the file manager and copy the files to the card reader drive.

The DS-66104/T utilizes a three-digit numeric ID system for programming your content tracks, so you will need to number your tracks using this system; please note that you can keep your track descriptions as well. There are two types of play modes, **MENU** and **REPEAT**, which determine what number is the first track. For Instance, in **Menu** mode the first track is **000**, which is the looping track, For **Repeat** mode the first track is **001**.

Menu mode: This is the factory default mode. Track 000 is the looping track for your menu file and it will continue to play until another track is selected from either a push button or touch screen input device.

Repeat mode: To change to repeat mode dipswitch # 1 (DV-66B) must be in the “OFF” position. Please note that when making any dipswitch changes the power must be “ON” in order for the changes to take affect. Repeat mode will play in sequence, one track at a time in numeric order, and after the last track the DV-66B will play track 001 again and continue looping in numeric order.

DIP Switch Selection (to access the 6 position Blue DIP Switch on the DV-66B board by removing the rear cover)

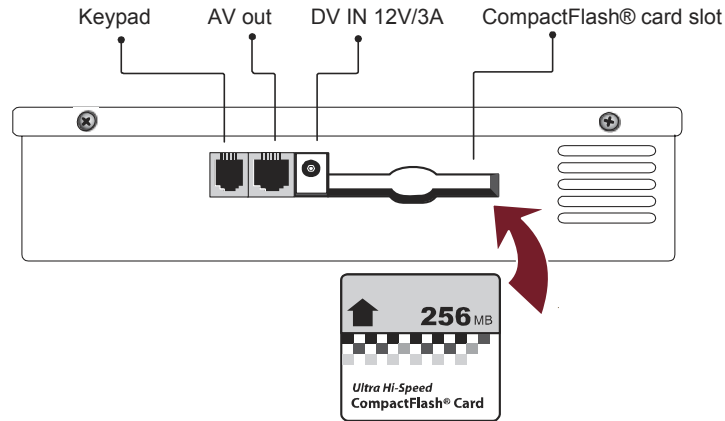
ON	OFF
1. Menu Mode	Repeat Mode
2. Composite output	VGA (Not Connected)
3. OSD off	OSD on
4. JPG start from Top	JPG display full screen
5. PIR activate track 001	PIR activate track 002
6. 4:3 Letter box	16:9

Note:

Setup changes will be saved on the flash memory, so the selection made will not change when the power is OFF. To have the MPEG-1 and MPEG-2 played properly through DS-66104/T player. You need to make sure both MPEG-1 and MPEG-2 have file extension “xxx.mpg” or else the video clips will not be recognized by DS-66104/T.

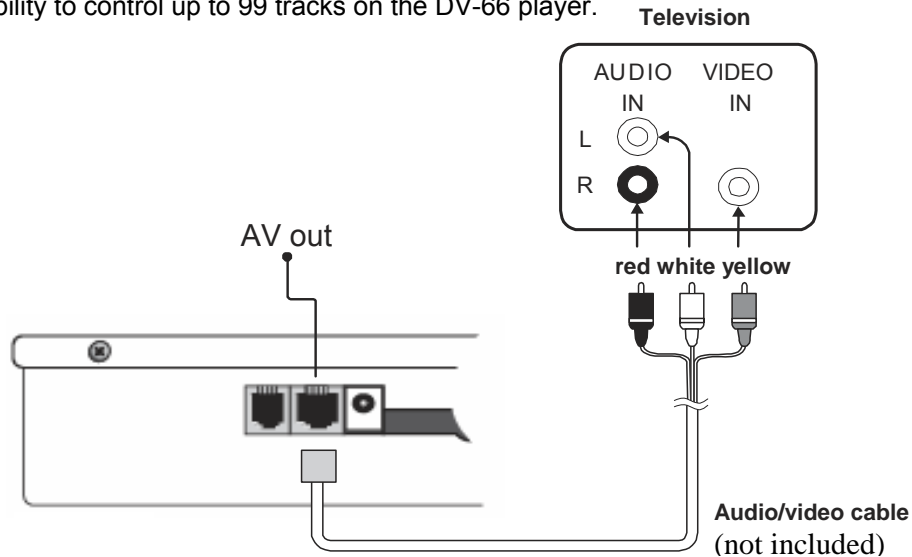
Step 2. Insert Hi-Speed CompactFlash® Card into DS-66104/T

Caution: DO NOT plug in the power before the CompactFlash® Card is inserted into DS-66104/T card slot. MedeaWiz recommends that the CompactFlash® Card to be inserted into the slot first, and then the power can be applied to the unit as described later.



Step 3. Connect your DS-66104/T to other display device (Optional)

Simply connect DS-66104/T to any video display such as a PC monitor or TV with A/V inputs, and you can start watching the video clips stored on your CompactFlash® Card. You can control the track selection with the optional DV-66K Keypad Controller (DV-66K controls 8 tracks, with modification on the DV-66K you can control up to 99 tracks, or you can use the RS232 TTL control command), and it gives you the ability to control up to 99 tracks on the DV-66 player.



Note: Normally the A/V inputs are located in the back of a TV or VCR. For more instructions on how to use A/V input on your displaying device, refer to the manual for that display device.

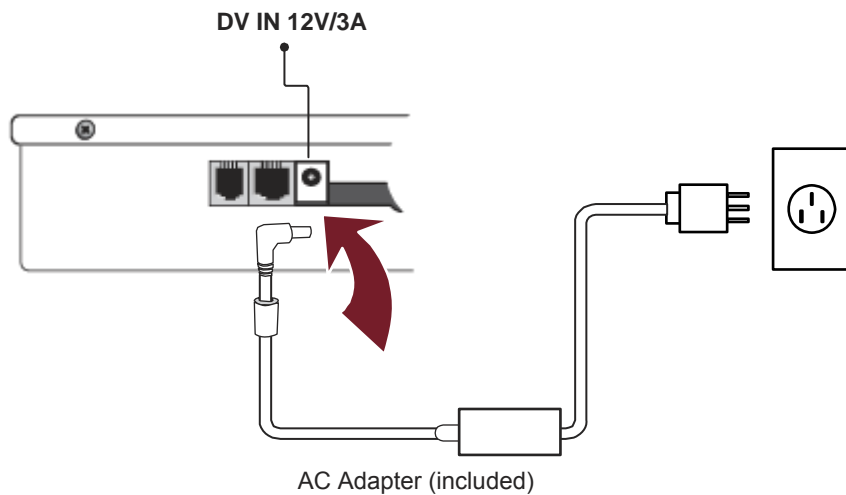
Step 4. Turn on the display device (Optional)

Turn on the display device and change the channel to the corresponding A/V input channel if necessary. Please see the manual of your display device for further instruction.

Step 5. Plug in the power

You are one step away from playing your media files on DS-66104/T. Just plug in the included power adapter and the DS-66104/T will automatically start playing the first video clip on the *CompactFlash*® Card!

Note: Make sure that you have inserted the *CompactFlash*® Card correctly, and its content meets DV-66B's specifications.

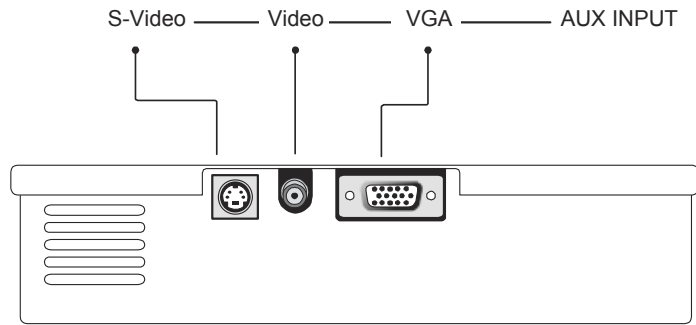


3. USING YOUR DS-66104/T

3.1 DS-66104/T's AUX Inputs

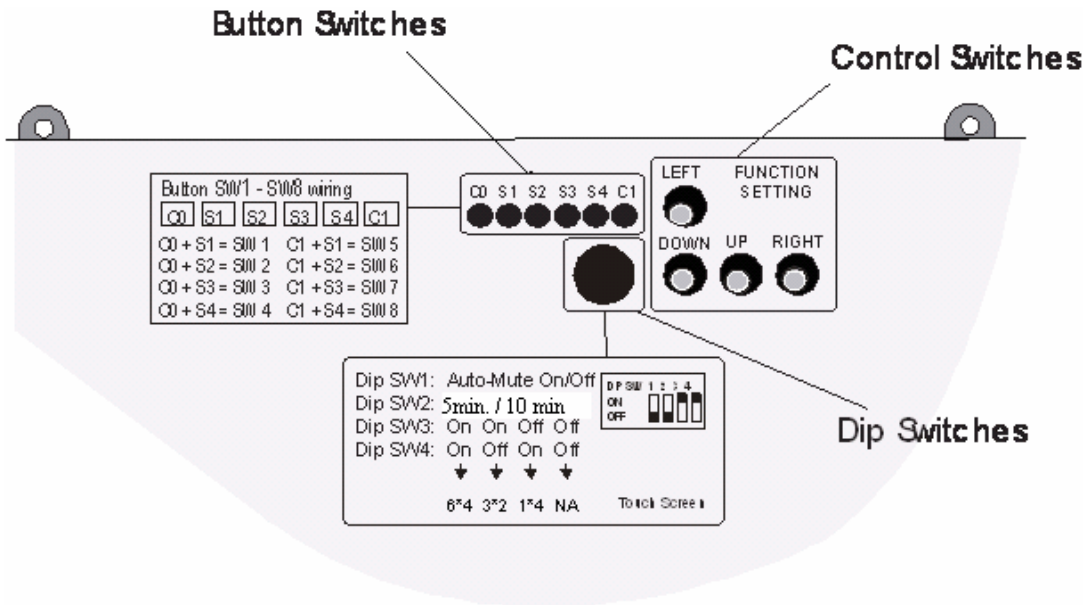
DS-66104/T also provides various inputs: S-Video, Video, and VGA for added versatility.

Note: Make sure to remove the CF card before connecting any input device. After connecting any input device with the connector, turn ON the input device and power up the DS-66104/T unit.



Turn OFF the device and remove the connector. DS-66104/T unit will go back to display its default input.

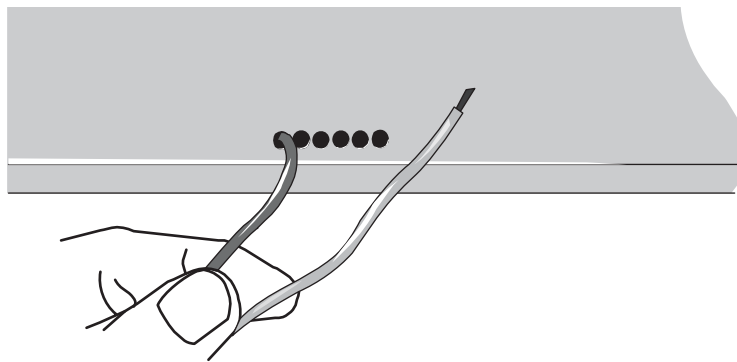
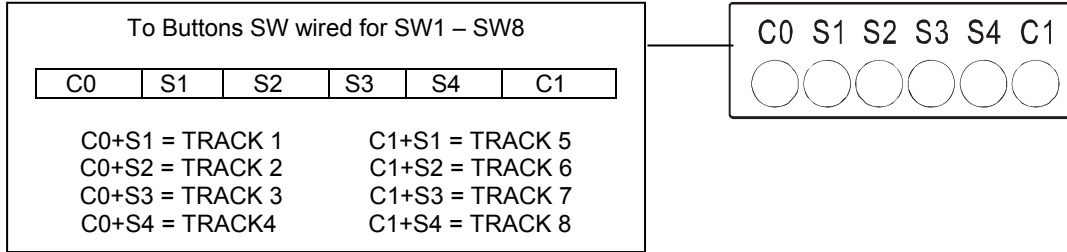
3.2 Control panel outlook



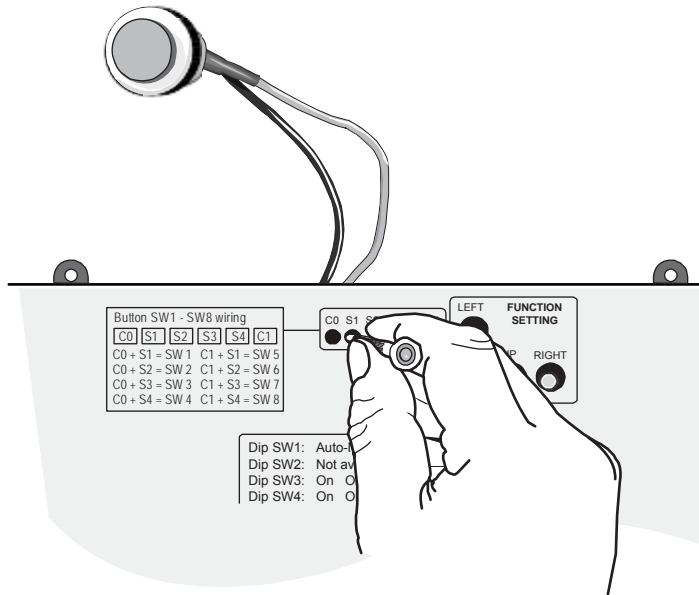
BUTTON SWITCHES

With the button switches, you can have an external set of buttons or control pad.

Note: *only 8 tracks are supported in the mode.*



Wires are fed into the holes located on top of the metal housing.



Fixing the wires by fasten the screws on the wiring socket.

DIP SWITCHES

With the DIP switches, you can configure the touch screen to have 4, 6, 24 tracks and auto-mute based on how the dipswitch configuration is set (As shown in the photo below).

Dip SW1:	Auto-Mute On/Off	
Dip SW2:	5 Min / 10 min	
Dip SW3:	On On Off Off	
Dip SW4:	On Off On Off	
	↓ ↓ ↓ ↓	
Touch Screen: 4x6 2x3 4x1 NA		

Note:

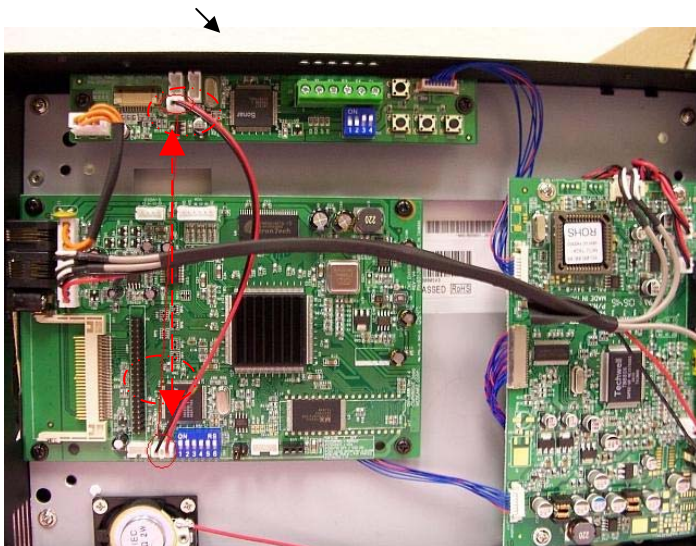
The default setting is SW1 & SW2 OFF, SW3 & SW4 ON.

AUTO-MUTE FUNCTION

		Auto-Mute feature	
		Cable connected	Cable disconnected
Switch # 1 OFF		Auto-Mute disabled (DS-66104 default setting)	Auto-Mute disabled
	Switch # 2 on	Auto-Mute after track 000 finish playing once.	Auto-Mute after 5 minutes
Switch # 1 ON (auto-mute ON)	Switch # 2 off	Auto-Mute after track 000 finish playing once.	Auto-Mute after 10 minutes

** DS-66104/T comes with auto-mute cable connected, Dip switch#1 & #2 at OFF position (no auto-mute)

***DS-66104/T W/ Back Panel Open Auto-Mute Connectors shown below ()



*** Please note that only Authorized Sales Partners and or MedeaWiz Technical Support are recommended to removing the Auto-Mute Cable. Unauthorized personnel who remove the Auto-Mute cable could damage the unit in which voiding the product warranty

Touch screen matrix definition for 4x6, 2x3, and 4x1 after calibration

1. Touch Screen SW type: 4x6

	<u>X1</u>	<u>X2</u>	<u>X3</u>	<u>X4</u>	<u>X5</u>	<u>X6</u>
<u>Y1</u>	SW1	SW2	SW3	SW4	SW5	SW6
<u>Y2</u>	SW7	SW8	SW9	SW10	SW11	SW12
<u>Y3</u>	SW13	SW14	SW15	SW16	SW17	SW18
<u>Y4</u>	SW19	SW20	SW21	SW22	SW23	SW24

2. Touch screen SW type: 2x3

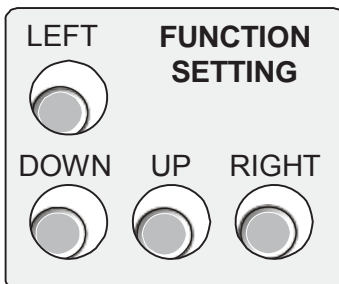
	<u>X1</u>	<u>X2</u>	<u>X3</u>	<u>X4</u>	<u>X5</u>	<u>X6</u>
<u>Y1</u>	SW1	SW1	SW2	SW2	SW3	SW3
<u>Y2</u>	SW1	SW1	SW2	SW2	SW3	SW3
<u>Y3</u>	SW4	SW4	SW5	SW5	SW6	SW6
<u>Y4</u>	SW4	SW4	SW5	SW5	SW6	SW6

3. Touch Screen SW type: 4x1

	<u>X1</u>	<u>X2</u>	<u>X3</u>	<u>X4</u>	<u>X5</u>	<u>X6</u>
<u>Y1</u>	SW1	SW1	SW1	SW1	SW1	SW1
<u>Y2</u>	SW2	SW2	SW2	SW2	SW2	SW2
<u>Y3</u>	SW3	SW3	SW3	SW3	SW3	SW3
<u>Y4</u>	SW4	SW4	SW4	SW4	SW4	SW4

CONTROL SWITCHES

The control buttons can control the **Video** and **Audio** characteristics.



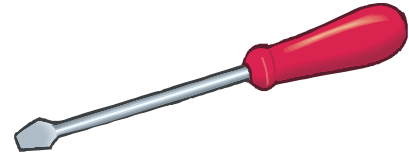
- LEFT** - To select menu
- RIGHT** - Press to increase the volume setting or select the desire setting option
- UP** - Press to decrease volume setting
- DOWN** - To select Video, S-video, and VGA input

3.3 Using the controls

After turn on DS-66104/T, you can start controlling its various options by following the steps below.

Step 1.

You will need a small screwdriver or any similar type of tool to reach the controls of DS-66104/T.

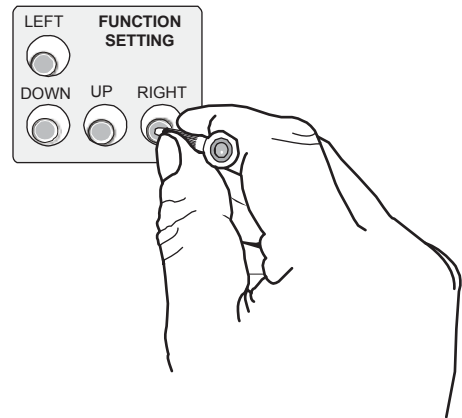


Note: A tool is not included in the package. A small screwdriver like the one shown in the picture will do.

Step 2.

Determine which control you like to configure, see page 7. If only the volume needs to be adjusted, simply depress UP/RIGHT buttons to set to the desired volume setting.

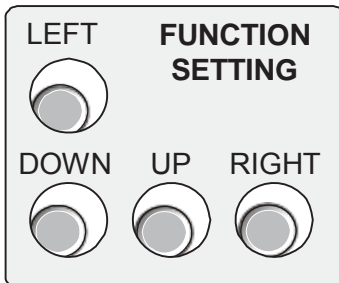
CAUTION: The button only requires a light touch. Do not press too hard on the button. MedeaWiz is not responsible for any damages caused by the abuse.



Step 3.

You may want to start from pressing the LEFT button, a menu will appear on the LCD display against whatever video image is playing at the time.

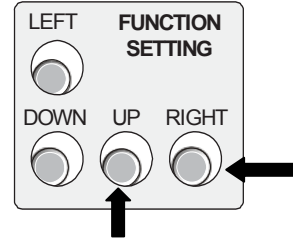
Keep pressing the LEFT button to select the desired tablet of "Input", "Picture", "Audio", and "Utility". For video setting go to "Picture" and press RIGHT button to select "Picture User". Press LEFT/DOWN to select "**Brightness**", "**Contrast**", "**Saturation**", "**Hue**", or "**Sharpness**". At each desired tablet pressing RIGHT button to select the setting that you would like to change.



Note: The default setting of Menu off time is 5 seconds ONLY, the menu will be auto off and the changes will be saved when no selections made for more than 5 seconds

Step 4.

When a setting is selected, use the "UP" or "RIGHT" buttons to increase/decrease setting value.



Step 5.

After changes are made, wait for 5 seconds, the menu will be auto off and the changes will be saved when no selections made for more than 5 seconds. After setting is saved, restart the unit.

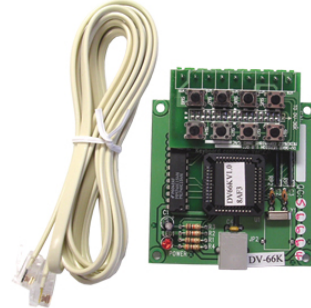
CAUTION: Any changes will not be saved if power is turned off before the menu is properly exited.

CAUTION: Use carefully when making any setting changes, MedeaWiz is not responsible for any damages that you made during the operations described in this chapter.

4. INTRODUCING DS-66104/T OPTIONAL ACCESSORIES

4.1 DV-66K, Keypad Controller

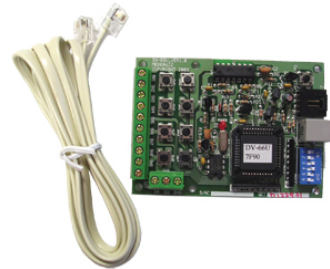
The required interface for connecting and controlling the DS-66104/T player with an external input device, such as push buttons. There are eight buttons per controller. 4800 baud rate.



4.2 DV-66U, Universal Controller

The required interface for connecting the DS-66104/T player with an analog touch screen. There are eight switch buttons per controller. 4800 baud rate.

- Supports PIR sensor connection
- Control Board with 8 key switches
- Supports touch panel connection



CAUTION: Analog touch screen used with DV-66U is subject to any dimension of the standard 4-wire resistive type touch screen; it is different with the matrix type touch screen built in the DS-66104/T unit

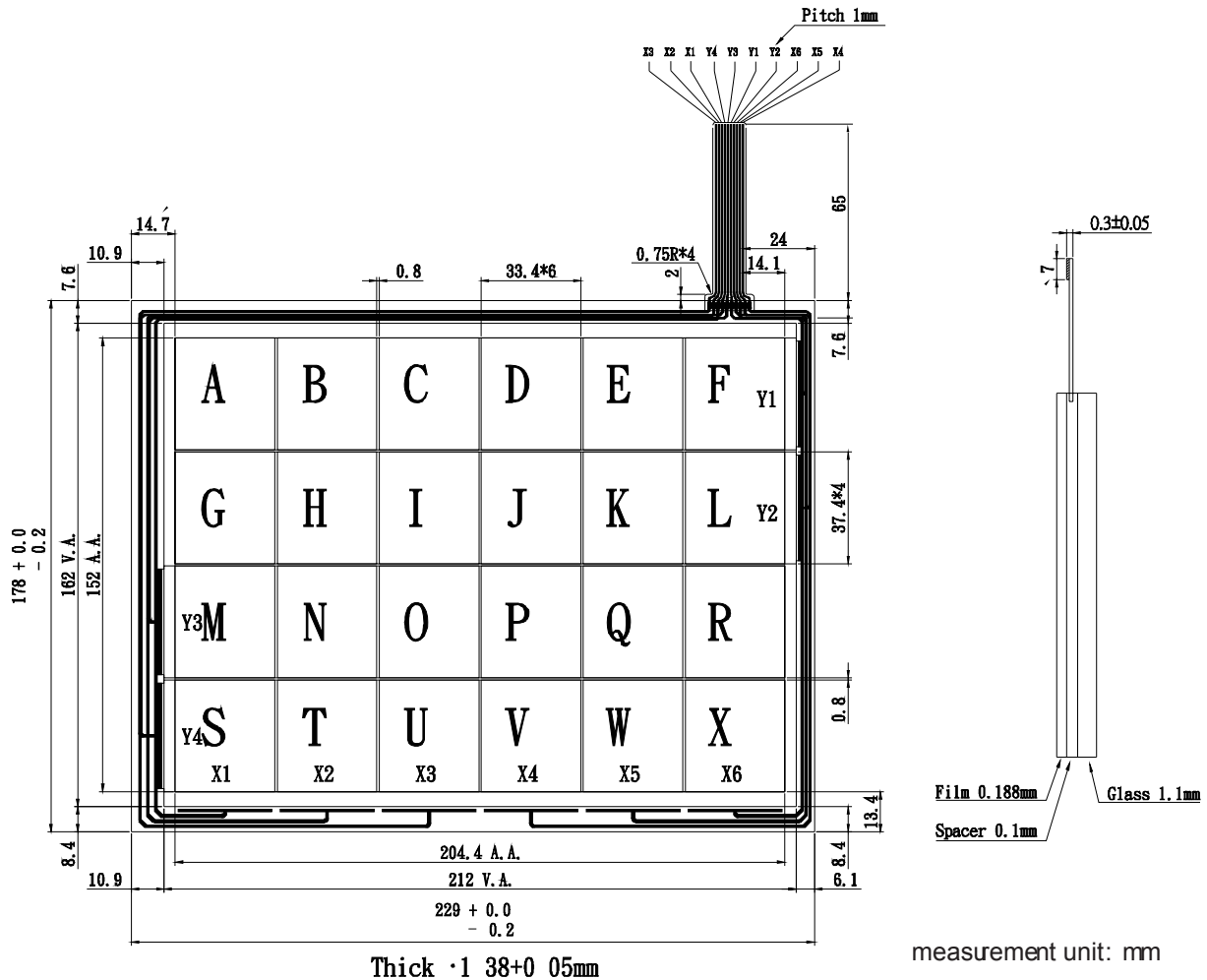
5. TOUCH SCREEN SPECIFICATIONS

For DS-66104T (DS-66104 unit with built-in touch screen)

ITO Film	280Ω/SQ, Anti-Glare, 0.188mm thickness
ITO Glass	110Ω/SQ, 1.1mm thickness
Tail	FPC, ITO Glass
Operating Resistance	≤3.5k ohm
Insulating Resistance	≥20M ohm
Transparency	> 70%
Hardness	≤ 3H, ITO film
Voltage	DC 0 ~ 5 V, 30mA
FPC Peeling Strength	≤ 700 gram
Actuation Force	> 100 gram
Life	≥1000000 times
Operating Temperature	14°F ~ 140°F, 50±30R. H
Storage Temperature	-4°F ~ 158°F, 50±30R. H

Pin Assignment

Pin	X1	X2	X3	X4	X5	X6
Y1	A	B	C	D	E	F
Y2	G	H	I	J	K	L
Y3	M	N	O	P	Q	R
Y4	S	T	U	V	W	X



6. DS-66104/T SPECIFICATIONS

System Type	Digital Audio/Video playback
Format	MPEG-1 (VCD), MPEG-2 (DVD), JPEG, MP3
Weight	5lbs
Dimension	W/housing: 11.25" (L) x 7.812" (W) x 1.812" (H);
Power Consumption	15 Watts
Power Supply	Universal Switching Power Supply Input AC 100/240V, Output DC 12V/3A
Operating Current/Voltage	1.25Amps @ 12V
Operating Voltage	12 VDC
Video Input	Video, VGA, and S-video input
Video Output	Composite, VGA (DV-66B), and S-video (DV-66B)
Audio Output	Stereo (line level)
Storage Format	High Speed CompactFlash® Card (min. 40X or up) Data transfer rate is 1X=150KB/sec, 40X=6.0MB/sec
Storage Capacity	512MB and up CompactFlash® or MicroDrive
Contrast Ratio	500:1 (typical)
Brightness	230 cd/m ²
Respond Time	35ms
Max. Resolution (pixel)	800x600 (LCD)
Active Display Area	211.2mm (H) x 158.4mm (V)
Viewing Angle	120 degree (H); 100 degree (V) (typical)
Surface Treatment	Anti-Reflection treatment of the front polarizer
Pixel Pitch	0.264mm x 0.264mm
MPEG-1 Est. Avg. Playback CBR @ 1.35Mbit/sec	MPEG-1 bit rate vary from 1.15Mbit/sec to 3Mbit/sec 256MB CF holds 25 minutes 512MB CF holds 50 minutes 1GB CF holds 98 minutes/ 1.63 hrs. 2.2GB CF holds 217 minutes/ 3.62 hrs.
MPEG-2 Est. Avg. Playback CBR @ 4Mbit/sec	MPEG-2 bit rate may vary and/or depend on the speed of the CF card. For maximum bit rate, please refer to our FAQ . 256MB CF holds 8.5 minutes 512MB CF holds 17 minutes 1GB CF holds 33 minutes 2.2GB CF holds 73 minutes

Note: We recommend MPEG-2 maximum CBR=5MBPS and VBR=4.5MBPS/peak 5.1MBPS

(*) RS232 TTL command control is required to have a RS232 cable to connect between the computer and the DV66104/T unit, please check with our company for availability.

The information in this document is subject to change without notice.

For more information about DS-66104/T or its optional accessories, please visit our website at <http://www.medeawiz.com/>
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