

ITP84 84" Interactive Touch Panel User Guide





Warning

• This product contains high voltage; the user should not open the case. Non-professional maintenance personnel should not try to repair this product For safety, this apparatus should be connected to an electrical outlet with a protective earth ground connection (3 prong plug).



Important Note

- Clean with a soft cloth and avoid rubbing any hard object on the surface. Do not place any object or tape on the panel screen.
- This product should be placed where it cannot be splashed by water or where it may be subject to rainfall. If the panel is accidentally exposed to water, immediately disconnect the power plug, dry the surfaces, and if necessary contact your dealer.
- If in an area with a thunderstorm, disconnect the power plug. Also if possible, disconnect the TV antenna feed if it is being used.



General Note

- Always activate a screen saver during operation. Do not display still images with high contrast for extended periods of time, like over 2 hours. If a still image remains on the screen for a long period an after image or ghost image may be present. This is a well known phenomenon with LCD technology. In most cases the after image will disappear gradually over time after the power has been switched off.
- Also note that when using a 4:3 display format, the sides or edges of the display may have a residual image trace. Please try to avoid this mode of operation.



- To prevent injury, the equipment must be firmly attached to the floor or the wall.
- An antenna connected to the panel must be isolated from grounding, otherwise it may cause fire hazard during electrical storms (use an antenna isolator between the antenna and the antenna interface of the product).

An antenna isolator installation diagram follows:



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Introduction

Dukane large-size Interactive Touchable LCD panels with LED light source combine display with interactive touch technology.

The Touchable LCD Panel uses a high-definition LCD panel integrated with a high-speed touch system. The touch sensing bezel uses Aluminum Alloy and Kirksite to provide an attractive appearance, plus a safe and reliable design with rounded corners.

The Interactive Touch Panel can be used in teaching, conferences, advertising, display, collaboration, command, and other applications.



Features

• Interactive touch function

The panel has an interactive multi-touch capability, by an edge embedded high-speed infrared touch detection system. When it is connected to a computer, it will control the computer using specific application software, this provides the interactive operation.

• Multi-touch function

The panel has a built-in touch system with a multi-touch function (6 points) under a Windows Operating system. It enables the objects (in programs and pictures) to be zoomed, dragged, rotated, and resized.

• Free calibration function

The panel supports a fast calibration function. Users can plug and play (the factory settings are for the Windows 7 multi-touch mode) without any delay for a program boot up or down loading.

• High-quality LCD screen

The panel features a high brightness, high contrast, accurately mapped, color optimization, motion and still image compensated processor for a perfect picture. A LED backlight provides consistent brightness.

• Digital multimedia broadcasting function

Simple operation is by plugging in a USB 1.1 or USB 2.0 standard memory stick. A user can browse images, play movies, listen to music, etc.

Multimedia function

The panel has a VGA port, so it can be used as computer monitor. In addition it has HDMI, USB, component input, s-video, plus audio input and output ports so it can be used with a variety of external devices.

• Remote and mouse function

The panel can be used with an optional remote control or mouse for distant external control.

• The touch response speed ups to 300 dots.

The high-speed touch sensor permits perfect easy writing and fast control..

• Three touch modes can be selected

Using the settings there are three touch modes that can be selected: single touch mode, mouse mode, multi-touch mode.

Standard Accessories List

Description	Quantity	Purpose	Picture
Power Cord	1	Connecting to the Power Outlet	
Remote Control	1	Control the Touchable LCD panel from a Distance	
Pointer	1	Pen for the Touchable LCD	
Pen	2	Pen for the Touchable LCD	
IPBOARD Touch Software CD	1	Driver and application software	JE
Touchable LCD TV	1	User Guide	
User Guide		Also available on the web site	

Optional Accessories List

Description	Quantity	Purpose	
PC		Active operation of the touch system	
Mobile Floor Stand	1	To hold the touch panel, permits movement to other locations	
Wall Mount		Hold panel in specific location	

Preparation

Using the IR Remote Control

Use the remote control by pointing it towards the remote sensor window located at the lower left front of the panel.

Cautions Regarding Using of Remote Control

- Do not expose the remote control to impacts or other rough treatment. In addition, do not expose the remote control to liquids, and do not place it in an area with high humidity.
- The remote control may not work properly if the remote sensor widow of the panel is in direct sunlight or strong lighting. In such a case, block the external lighting or move the panel. You can also operate the remote control closer to the remote sensor window.

Installing the Batteries

For initial operation add 2 AAA batteries to the remote control. If the remote control fails to operate, replace the batteries.

- 1. Open the battery cover.
- 2. Insert two size AAA batteries. (Place the batteries with their terminals corresponding to the (+) and (-) indications in the battery compartment.
- 3. Replace the cover.

Precaution on battery use

Improper use of batteries can result in a leakage of chemicals and/ or explosion. Be sure of follow the

instruction below.

- Place batteries with their terminals corresponding to the (+) and (-) indications.
- Different types of batteries have different characteristics. Do not mix batteries of different types.
- Do not mix old and new batteries. Mixing old and new batteries can shorten the life of new batteries and/or cause old batteries to leak chemicals.
- Remove batteries as soon as they are non-operable. Chemicals that leak from batteries can cause a skin rash or damage the device. If chemical leakage is found, wipe it with a dry cloth.
- If the remote control is not used for an extended period of time, remove the batteries from the remote control.
- The batteries and the remote control should not be exposed to excessive heat such as sunshine, heaters, or fire.

Power Connection

Insert the panel's AC plug into a convenient AC outlet. The panel power port is on the bottom side of

the input ports unit. Normal Input voltage range: 100V ~ 240V. Frequency range: 50Hz/60Hz ±5%

Note: This product should be operated only from the type of power source indicated on the marking

label. Always unplug the AC cord from the power outlet when not using for a long period of time.

Main Unit (Front View)



- 1. USB Interface; 2 ports
- 2. Indicator; Panel ON /OFF
- 3. Buttons
- 3.1 Vol +/-

Press the Vol + or Vol - button to directly increase or decrease the sound volume level; In the OSD Menu, press these buttons to change the OSD items. **OSD** (On Screen Display)

3.2 Ch +/-

Press the Ch + or Ch - button to change the TV channel; In OSD Menu, press these buttons to change the OSD items.

3.3 Menu

Press this button to display the OSD (On Screen Display) items.

3.4 AV/TV

Press this button to switch between TV and AV modes.

3.5 PC-ON

Press this button to turn on/off the PC.

3.6 Power

Turn on/off the panel.

Main Unit (Rear View)





(The picture is for reference only)

Number	Terminal	Description
1	USB	Standard Type 2.0 A
2	HDMI 2	Type A HDMI video / audio
3	HDMI 1	Type A HDMI video / audio
4	VGA in Computer in	D-Sub 15 video
5	PC-Audio in	3.5mm mini stereo plug
6	AV_IN2 in RCAX3	RCA type video / audio
7	S-Video in	Standard Y/C video
8	YCBCR_ in RCA X 3	RCA type Component R/G/B
9	Headphone out	3.5mm mini Earphone Jack
10	TV_IN for coax cable	IEC type (75Ω) Side type
11	AV_IN 1 in RCA X 3	RCA type video / audio
12	SPDIF out	RCA type Digital Audio out
13	AV_OUT out RCA X 3	RCA type video / audio

Bottom of panel;USB port Type 2.0 A is on the bottom. It can be used for the touch control.Also the 115 VAC power port.Front of panel has 2 USB ports .

Remote Control Unit

1. Remote Control for LCD Panel (Note: Remote control models vary with availability)



1. POWER

Press to turn panel on or off.

2. MUTE

> Press to mute sound, press again to restore sound.

3. 0-9 Keys

7

Press any number of 0-9 buttons to select a TV channel. It has the RECALL function, press number button in other channel, it can change to TV channel.

The key has no function. 4.

5. RECALL

Returns to the previous channel viewed. Another function is choosing picture playing mode in Multimedia mode.

6. AUTO

Press to auto adjust at PC source.

7. INPUT

Press this key to choose the input signal.

▲/▼/◀/▶ / ENTER 8.

> Press the arrows to navigate through the menus or adjust an item. Press ENTER to confirm a selection or enter a submenu. When watching digital TV programs, press

> ▲ button to record a program; press ▼ button to display Recorded List; press button to time shifting; press button to play or pause.

9. EXIT

Exits the menu screen.

10. MENU

Access or return to the main menu.

11. VOL+/-

Press to increase or decrease the volume.

12. CH+/-

Changes the channel up and down.

13. AV

Converting audio and video.

14. PC

Adjust at PC source

15. SETUP

Press the key to setup the panel.

16. 3D

17. LANG

Sets the track.

18. TITLE

Display the title.

19. PMODE

Selects the picture mode.

20. SMODE

Selects the sound mode.

21. ZOOM

Press the key to makes the pictures zoom in and out.

22. ANGLE

Adjust display angle.

23. Functional button

24. DISP

Press to display the source and channel's information.

25. SLEEP

Sets the sleep timer.

Basic Operation

Press **INPUT** button to display the input source list.

Press **V** button to select the input source you want to watch.

Press **ENTER** button to enter the input source.

Press **EXIT** button to quit.

Input Source
VGA
Component
ATV
HDMI1
HDMI2
AV 1
AV 2
S-Video
MEDIA
о ок

1. Express Installation of IPBOARD Touch Software

This installation option is recommended for first time installation of the software.

- 1.1) Insert *IPBOARD Touch Software* disc.
- 1.2) Click program logo.



1.3) Proceed to Installation Guide window.



1.4) Click

to access to the installation interface of IPBOARD Touch

Software and USB Driver.



1.5) Click "Next" to select the language you want to install.

Language Selection			11-5-5
Select the language you want to	nstall.		、长巨龙科教
IPBOARD ° Touch Software V9.0	When connected with the PC and whiteboard and can edit, print or s education, meetings, long-distance Please select the language:	projector you are able to write or ave all the files. It has become th e communications English	annotate directly on the e main measure for modern
			hall

1.6) Select the setup type of installation. The setup type of Complete and Custom can be chosen. If select setup type "Complete", you can install all the program features. If select setup type "Custom", you can select the program features you want to install and set the installation path for IPBOARD Touch Software.



(1) Select "**Complete**", and click "**Next**"→"**Install** "to start installation. The default installation path is "**C:\Program Files\Julong Educational\ IPBOARD Touch software\9.0**"



(2) Select setup type "**Custom**", click "**Next**" to enter Custom Dialog, and you can click "**Change**" to modify the installation path.

Choose Destination Location		
Select folder where setup will install files.		、●●●●●●●●●
IPBOARD ° Touch Software V9.0	Install IPBOARD Touch Software to: C:\\IPBOARD Touch Software\3.0	<u>C</u> hange

(3) Click "Next" to select the features you want to install -- Picture Library, WBGeneralPlugin, WBForUsbPlugin,WBDualPenPlugin,TB3124Plugin,TB2015Plugin,TB2015RIIPlugin,SubjectResource, TableDriver,Infrared6KCPlugin.

Select Features Select the features setup will install.		、一日女科教
IPBOARD [®] Touch Software V9.0	Select the features you want to install, and deselect the feat WBGeneralPlugin WBForUsbPlugin WBDualPenPlugin WBDualPenPlugin WBDualPenPlugin WBDualPenPlugin WBDualPenPlugin WBDualPenPlugin WBDualPenPlugin WBDualPenPlugin WBDualPenPlugin WBDualPenPlugin WBDualPenPlugin WBDualPenPlugin WBDualPenPlugin WBDualPenPlugin WBDualPenPlugin WBDualPenPlugin	ures you do not want to install.
	60.27 MB of space required on the C drive 5571.30 MB of space available on the C drive	

- (4) Click "**Next**" \rightarrow "Install" to begin the installation.
- 1.7) After the successful installation of IPBOARD Touch Software, the prompt for installing FTDI USB Driver or Silicon USB Driver appears. You can remove the default option, click "**Finish**" directly to complete the installation.

IPBOARD Touch Software - Insta	allShield Wizard
	、一会巨龙科教
IPBOARD [®] Touch Software V9.0	InstallShield Wizard Complete The InstallShield Wizard has successfully installed IPB0ARD Touch Software. Click Finish to exit the wizard.
	 Install FTDI Driver now. Install Silicon Driver now.
InstallShield	Kack Finish Cancel

2. Step-by-step Installation of IPBOARD Touch Software

This installation option is recommended when upgrading IPBOARD Touch Software or replacing the USB cable.

- 2.1) Follow 1.1) 1.3) to enter installation guide window.
- 2.2) Click

to install IPBOARD Touch Driver and IPBOARD Touch

Software by following the step-by-step guide.

Install Step By Step



Note: No need to install USB driver (Plug-and-play USB interface).

2.3) Install IPBOARD Touch Driver

Click

to install driver for Interactive Whiteboard.

2.3.1) Access to the Install Shield Wizard for IPBOARD Touch Driver. Click "Next".



2.3.2) Select the language you want to install.



2.3.3) Select the setup type of installation. The setup type of "**Complete**" and "**Custom**" can be chosen. If select setup type "**Complete**", you can install all the program features. If select setup type "**Custom**", you can select the program features you want to install and set the installation path for IPBOARD Touch Software.



 If select the "Complete", and then click "Next"→"Install" to start the installation. The default installation path is "C:\Program Files\Julong Educational\ IPBOARD Touch Driver\4.0".



(2) Select "Custom", and then click "Next" to enter setup type "Custom" dialog, and you can click "Change" to modify the installation path.

IPBOARD Touch Driver - InstallShield Wiza	ard	×
Choose Destination Location Select folder where setup will install files.		
_	Install IPBOARD Touch Driver to: C:\\IPBOARD Touch Driver\4.0	<u>C</u> hange
InstallShield	<back next=""></back>	Cancel

2.3.4)Click **"Next"**, select the driver(s) you want to install (WBGeneralPlugin, WBForUsbPlugin, WBDualPenPlugin, TB3124Plugin, TB2015Plugin, TB2015RIIPlugin and Infrared6KCPlugin).



2.3.5) Click "Next" \rightarrow "Install" \rightarrow "Finish" to complete the installation.

2.4) Install IPBOARD Touch Software

Click Click

3. Uninstall IPBOARD Touch Driver

Click Install IPBOARD Touch Driver, choose "Remove", and uninstall step by step according to the

guide.

4. Uninstall IPBOARD Touch Software

Click "Start" \rightarrow "Control Panel" \rightarrow "Add or Remove Programs", and select "IPBOARD Touch



Software", and then click "Add/Remove". (Or insert the software disk, click

guidance of software uninstalling, and process step-by-step as per the instruction.)

1. Startup Driver of Panel

Click "Start" \rightarrow "All programs" \rightarrow " Julong Educational Software ", \rightarrow " IPBOARD Touch Software 9 " \rightarrow " IPBOARD Touch Driver 4 ",or double-click the shortcut icon IPBOARD Touch Driver 4 on the desktop to start IPBOARD Touch Driver. It will show a tray icon of communication module *i*, in status bar lower-right corner of desktop.

2. Startup Application Software of Panel

When the Panel and the PC have been properly connected, and the IPBOARD Touch Driver has been started up,



shortcut icon of IPBOARD Touch Software ^{Software 9} on the desktop to startup application program, then it will popup a interface as shown below:



(2) After about 2 seconds, it will jump into the software interface:



The detailed methods of the operating software please refer the menu bar "**Documents**" \rightarrow "**Help**" to open the help document.

3. Activate IPBOARD Touch Software

If the PC and the Panel are correctly connected by the connecting cable, you need not to activate IPBOARD Touch software. If not, you have to activate IPBOARD Touch software, or else, you can use the trial version of IPBOARD Touch only 20 times.

The method of activate the IPBOARD Touch Software is:



Double click the shortcut icon of IPBOARD Touch Software ⁹ on the desktop, it will popup the dialog box as shown below:

ctiva	ation Guide
W	/elcome to use the Activation Guide f IPBOARD Software System
	Software could run without connecting driver after activating. You can still use it 19 times without activating it.
	Are you sure to active it now?
	Yes, Activate it by internet;
	O No, Activate it next time;
	Note: The Activation Guide of IPBOARD Software is unable to be actived correctly if not connected to the Internet. Please confirm the computer has been connected to the Internet before Activation.
	Previous Next Cancel

1) If you select "Yes, Active it by internet;", please click "Next", as shown below:

Welcome to use the Activation of IPBOARD Software System	Guide	
Country/Area:		<u> </u>
Username:		
Short Name:		
Company:		
Please input 25 charact this CDKEY number on t	ers CDKEY of the product into below frame. he CD or from the label of attached user mar	You can find nual.
CDKEY(K):		

Herein input related information, such as Country/Area, Username and so on. And follow the Activation Guide to input the CDKEY, and do the next, until completed the activation of software.

2) If select "**No, Active it next time;**", you can continue try to use the software only 20 times before you are required to activate the software.

If you want to activate it after you have been started the software, you can also activate it by "Help" \rightarrow "Online Activation...", you can follow the Activation Guide to complete it.

4. Options of IPBOARD Touch Software

Click "**Tool**" \rightarrow "**Options...**", you can set up the parameter of common, subject, page, draw, pen, tool, online service, object gesture, preview set and MultiTouch pen.

(1) Common

Select "Commen", you can set up the replay speed , autosave time paging and language.

arameter Setting	
Common	Replay Setting
Subject	Replay Speed:
Page	Autosave Time
Draw	
Pen	O Never Autosave
Tool	Autosave upon Page Switching
Online Services	C Autosave upon Timing
Object Gesture	Interval: 10 🔶 Minute
Preview Set	Trash setting
MultiTouch Pen	✓ Hide Trash
	Paging
	Animation Null 💌
	Language
	OK Cancel

(2) Subject

Select "**Subject**", you can choose the subject, then the tools and resources of the software will be about this subject.

eter Setting			
Common	Subject		
Subject	Mathematics	E Dhusies	
Page	I♥ Mathematics	I♥ Physics	
Draw	Chemistry	Geography	
Pen	Biology	Chinese	
Tool	✓ English	V Humanities	
Online Services			
Object Gesture			
Preview Set			
MultiTouch Pen			
			OK Can

Parameter Setting			×
Common	Background		
Subject	Fill Style	Single Fill	Timestamp
Page	Main Color		
Draw			1/1
Pen			
Tool			
Online Services			=
Object Gesture			
Preview Set			
MultiTouch Pen			
			-
			OK Cancel

Select "Page", you can modify background fill style and main color.

(4) Draw

Select "Draw", you can modify split settings, angle-rectifying settings, basic settings and multipen mode.

Common	Split Settings	
Subject	Enable split by distance	
Page		
Draw	Enable split by time difference	
Pen	Angle-rectifying Settings	
Tool		
Online Services	Rotation Minimum Angle:	(0°~20°)
Object Gesture	Minimum Line Intersection Angle: 5	▲ (0°~20°)
Preview Set		
MultiTouch Pen	Basic Settings	
	Delay: 500 ms	
	Pen Type: Normal Pen 💌	Pen Color:
	Text Font: Arial 💌	Font Size: 24
	Recognize Language:	inglish 💌

(5) Pen

Select "Pen", you can modify recognition settings.

Parameter Setting			×
Common		_	^
Subject	Recognition Settings	500 ms	
Page	recognion beidy.		
Draw			
Pen			
Tool			
Online Services			E
Object Gesture			
Preview Set			
MultiTouch Pen			
			-
		ОК	Cancel

(6) Tool

Select "Tool", you can modify searchlight, soft keyboard, cover screen, and move page settings.

eter setting		
Common	Searchlight Settings	
Subject	Flare Diameter:	Flare Shape: Ellipse
Page Draw	Transparency: 0%	Color:
Pen	Soft Keyboard Settings	
Tool Online Services	☑ Pop-up when Save	
Object Gesture	Move Page	
Preview Set MultiTouch Pen	Traveling	
	Tronsee	 Image Color
		OK Cano

(7) Object Gesture

Select "Object Gesture", you can choose the object gesture can be performed simultaneously.

rameter Setting		
Common	Action Options	
Subject	Translate	
Page	✓ Zoom	
Draw	Rotate	
Pen		
Tool		
Online Services		
Object Gesture		
Preview Set		
MultiTouch Pen		
		OK Cancel

(8) Preview set

Select "Preview Set", you can modify the preview style. It can be achieved via "View" menu.

eter Setting		
Common	Preview Style	
Subject	Tile Preview	
Page	O Preview Album	
Draw		
Pen		
Tool		
Online Services		
Object Gesture		
Preview Set		
MultiTouch Pen		
		OK Can

① The Preview

The Preview style as shown below: click "+" or "-" to add or delete a page; double-click the page to exit the preview.



② Preview Album

The preview album as shown below: click the current page to exit the preview album.

・ 上学校科教 ・ 上学校科教 ・ 自主 の 新 ・ 技术引 後	<section-header></section-header>	Image: Section 1 Image: Section 1 <td< th=""></td<>
自主创新 技术引领	A particular, inc. Model and and a particular statement of the statement of t	

1)	Click	"Start"→"All	Programs"→"	闄 Julong Education	al Software "→
"	IPBOARD	Touch Software 9	\rightarrow " 🖬 ScreenRec	order ", and	d will pop-up the following
wind	dow:		I		
				- × 00:00:00	
2)	Click	, set relevant pa	arameters.		
3)	Click	, change the	e save path, and the d	efault path is "C:\Users	s\admin\Videos".
		Options		22	
		File Vi	deo Sound Watermark	L	
		File Sav	/ed		
		Auto S	ave:	No	
		File Fo	mat:	.avi 💌	
		Save P	ath		
		C:\Us	ers\admin\Videos\		
		Free S	pace:4975M Brows	se Open	
		Tips Se	tup		
		🗆 🗆 wa	am when free space less tha	n 0 MB	
		🗆 🗖 Ste	op when free space less than	MB	
		Ca	pturing time	0 min.	
		I ✓ Hide	main window while recording	Default	
				OK Cancel	

5. Screen Recorder (format is .avi or .wmv)

If, after reading these operating instructions, you have additional questions related to the use of your

panel, please call the services center in your local area.

Before calling service, please check the symptoms and follow suggested solutions.

Remote Control

Problem	Possible Solutions							
Remote Control does not operate	•	The	batteries	could	be	weak.	Replace	the
	batteries.							
	• Check the orientation of the batteries.							
	•	• Make sure the panel power cord is plugged in.			n.			

Video and Audio

Problem	Possible Solutio	ns
No picture (screen not lit)	Make sure the power cord is p	olugged in.
No sound	Press POWER on the panel	or on the remote
	control.	
	Check to see the signal sourc	e is ON.
Dark, poor or no picture (screen	Select a proper picture mode.	
lit), good sound	Adjust the brightness in the vi	deo setting.
	Check the antenna connection	ns.
No color/dark picture /color is not	Adjust the color saturation in t	he video setting.
correct		
Only snow and noise appear on	Check the antenna connection	ns.
the screen for TV mode	Try another channel; it could b	be station trouble.
Dotted lines or stripes	Adjust the antenna.	
	Move the panel away from n	oise sources such
	as cars, neon signs, or hair dr	yers.
Double images when TV mode	Using a highly directional out	tdoor antenna or a
operation	cable may solve the problem.	

Good picture, no sound	•	The sound may be muted. Press MUTE again to	
		cancel. Adjust the audio level.	
	•	Make sure the stereo is set to stereo or mono.	
Audio noise	•	Communication problems may occur if infrared	
		communication equipment (e.g. infrared	
		cordless headphone) is used near the panel.	
		Move the infrared communication equipment	
		away from the panel until the noise is eliminated.	

General Problem

Problem		Possible Solutions
One or some channels can't be	•	These channels may be locked. Please unlock
displayed		them.
	•	These channels may be set to be skipped in the
		channel list. You may reset them or select them
		with 0-9 number buttons
Some items can't be accessed	•	If a setting option appears in gray, this indicates
		that the settings option is unavailable in current
		input mode.
Panel cabinet creaks	•	When the panel is in use, there is a natural rise
		in temperature, causing the cabinet to expand or
		contract. This may be accompanied by a slight
		creaking noise. This is not a malfunction.
Control buttons do not operate	•	Disconnect the power cord and wait for a few
		seconds. Then re-plug the power cord and turn
		on the unit again.

Note: If your problem is not solved, turn the unit off and then on again. Never attempt to repair a defective panel yourself.

Product Dimension

Size	Configurations	Dimension		
55" Built-in PC, 3D Sensor (Optional)		Display Area	1209.6(H) × 680.4(V)mm	
	Outline Dimension	1287(H) × 745(V)×115(D)mm		
65" Built-in PC, 3D Sensor (Optional)	Display Area	1428.5(H) ×803.5(V)mm		
	Outline Dimension	1508(H) × 878(V) ×115(D)mm		
70"	70" Built-in PC (Ontional)	Display Area	1538.88(H)×865.62(V)mm	
	Outline Dimension	1660(H) ×991(V)×125(D)mm		
84"	Built-in PC (Optional)	Display Area	1904(H)×1096(V)mm	
		Outline Dimension	2136(H)×1286(V)×125(D)mm	

Note: This Table is for reference only. Refer to the actual product.

Specifications of Touchable LCD Panel with LED / TV Control Board

Chip Set	MST6M48RHS			
OSD Language	Chinese, English			
	Panel Type LCD Panel with LE		backlight	
Screen	Interface Dual/ Single LVDS Interface (Max: 10 bit)			
	Max Resolution 1920 X 1080			
	TV tuner	Receipting Range	55.25MHz ~	
			863.25MHz	
Video Input		Input Impedance	75Ω	
		Video System	PAL/SECAM/NTSC	
		Audio System	B/G, D/K, I, M	
		Max Storage Channels	200CH	
	PC-RGB	Format	Up to SXGA@75Hz	
	HDMI	480i, 480p, 57i, 576p, 720p, 1080i, 1080p		
	YPbPr	480i, 480p, 57i, 576p, 720p, 1080i, 1080p		
	S-Video S-Y: 0.714 V _{p.p} ±5%, S-C: 0.286		: 0.286 V _{p.p} ±5%	
	CVBS	Composite Video	PAL/SECAM/NTSC	

		Video Signal	1.0 V _{p.p} ±5%	
		Magnitude		
Audio Input	PC Audio	Earphone Input, 3,5mm	0.2~2.0 V _{RMS}	
	S-Video	Left/ Right Channel	0.2~2.0 V _{RMS}	
	CVBS	Audio Terminal Input		
	YPbPr	RCA x 2		
Audio Output	Frequency Response	100Hz~15KHz@±3dB(1	IKHz, 0dB for	
		Reference Signal)		
Speakers x 2	Max Output Power	2 X 9W (8ΩTHD + N < 10% @ 1KHz (Su		
		Power Voltage: 24V, Audio Input: 0.5 V_{RMS})		
Power; Panel internal Input Voltage		24V/12V/5V/5VSB		
	Flooding Screen Voltage	5V,12V		
	Power Management	Stand-by Power Consumption < 0.5W (Board		
		Only)		
Comb Filtering Function	3D			
Release Interleave Function	3D			
Weak Signal Enhanced	Yes			
Function				
De-noise Function	Yes			
Extended Function	DVD, External USB, External HDMI, External AV Input			
USB Function	For Multimedia Play and Software Upgrade			

Key Function	Menu, Ch+, Ch-, Vol-, Vol+, Signal Source, Power		
Terminals		TV	1 IEC Connector
		USB	4 x USB Port (A Type)
		HDMI	2 x HDMI Terminal (A Type)
		PC-RGB	1 D-Sub Terminal(Blue, 15Pin)
		PC-RGB Audio	1 3.5mm mini Terminal (Black)
		YPbPr	3 RCA Terminal (Green, Blue,
	Input		Red) component video
Terminals		S-Video	1 S-Video Terminal (Black)

		CVBS composite video	2 RCA Terminal (Yellow)
Terminals con't		Audio	
			2 RCA Terminal (Red, White)
		CVBS Composite Video	1 RCA Terminal (Yellow)
	Output	AV Audio Output	2 RCA Terminal (Red, White)
		Earphone Output	1 3.5mm mini (Black)
		SPDIF	(digital audio) RCA

TFT-LCD Screen Specification

Items	Specification
Driver	a-Si TFT active matrix
Display colors	1073.7M (8-bit +FRC) (Colors)
Color Gamut	72% (NTSC)
Number of Pixels	1920 x 1080 pixel
Pixel Arrangement	RGB Vertical Stripe
Pixel Pitch	0.744mm
Display Mode	Transmissive; Normally Black
Surface Treatment	HCLR, 3H
Total Power Consumption	220W (including BLU & Signal)
RoHS	RoHS Compliance

Specifications subject to change without notice.

Latest manuals and software at Dukane AV Div website www.dukaneav.com

DUKANE CORP

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Specifications of Optical Touch Overlay

Items		Specification	
Active Touch	Area	The same as active display area	
Frame Material		Aluminum Alloy and Kirksite	
Appearance (Color	Black	
Glass Type		Tempered Glass	
Response Tin	ne	< 10 ms	
Touch Resolu	tion	32768 (W) x 32768 (D)	
Data Commu	nication	Coordinate Output	
Minimum Disc	cernible Object	5 mm	
Touch Accura	су	±2 in the 90% touch area	
Touch Method	1	Finger, brush-pencil, pointer or any other touching induction	
		medium.	
Touch Times		Unlimited	
Interface Type	2	USB	
USB Line Ler	gth	Normally 1.5 meter long	
	Terminal Type	A type USB	
USB	Communication Interface	Full speed USB 2.0	
	Power Supply	USB	
Temperature	Operating Temperature	-10□ ~ 70□	
Range	Storage Temperature	-40 - ~ 85 -	
Relative	Operating Humidity	0~85% RH, Non-condensing	
Humidity	Storage Humidity	0~95% RH, Non-condensing	
Power		< 1 W	
Current		< 200 mA	
Antistatic		ESD: touch discharge 8kV, air discharge 15kV	
Touch Type		Single touch /Multi-touch gesture recognition / 2-point touch	
Operating System		Windows XP/ 2000/ 2003/ Vista/ Windows 7/ Linux	
Firmware Upgrade Function		Support USB upgrade	

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