# **MP-878D Series**

## **Mini-PCI Video Capture Card**

## **User's Manual**



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1.0	2007/01/25
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1.3	2009/06/29

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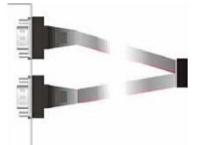
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## Packing List:

Please check the package content before you starting using the board.

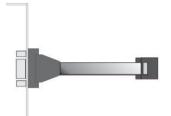
#### Cable Kits:



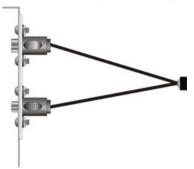
Dual D-SUB 9 Cable x 1 (MP-878D8 only)



4 BNC Cable x 2 (MP-878D8 only) 4 BNC Cable x 1 (MP-878D4 only)



D-SUB 9 Cable x 1 (MP-878D4 only)



Composite and S-video Cable x1 (MP-878D only) Composite and S-video Cable x2 (MP-878D2 only)

## Hardware:

- 1 x MP-878 series Mini-PCI Video Capture card
- 1 x Cable support S-video & Composite for MP-878D
- 2 x Cable support S-video & Composite for MP-878D2
- 1 x BNC cable & 10-pin header to D-sub 9-pin cable for MP-878D4
- 2 x BNC cable & 10-pin header to D-sub 9-pin cable for MP-878D8
- 1 x Utility CD

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## Chapter 1 < Introduction>

## 1.1 < Product Overview>

COMMELL MP-878D series is a Video input Video Capture Card. That supports up to D1 resolution at 30/25 fps (one Chip). Also MP-878D/D4 series supports NTSC/PAL signals.(MP-878D2/D8 is allow 2 Cards which installed in one PC system. If user wants to use more than two MP-878D2/D8 Mini-PCI capture card in one system, User needs to be aware of that each 878 chip on the card needs to be set for different PCI Subsytem ID in EEPROM device. And please inform COMMELL to set different ID before purchase. Also note , MP-878D2/D8 ONLY compatible with COMMELL's Motherboard

## 1.2 <Hardware requirement>

I. Intel Pentium III 1.0 GHz or above (The CPU speed depends on the video Frame rate, channels and resolution)
II. 256 MB RAM or above
III. Free Mini-PCI slot

## 1.3 <Software requirement>

Microsoft Windows 2000/XP with DirectX 9.0 or above

## 1.4 <Dimensions>

44.6 x 59.5 mm ( Mini-PCI Type-III B )



Figure 1.2

## 1.5 <Hardware Interface >

#### Connector: CN\_DVR2

Type: onboard 2 x 5-pin header, pitch=2.0mm

Pin	Description	Pin	Description
1	Ground	2	COMP11
3	Ground	4	COMP12
5	Ground	6	C1
7	Ground	8	COMP10
9	Ground	10	COMP13

#### Connector: CN\_DVR1

Type: onboard 2 x 5-pin header, pitch=2.0mm

Pin	Description	Pin	Description
1	Ground	2	COMP21
3	Ground	4	COMP22
5	Ground	6	C2
7	Ground	8	COMP20
9	Ground	10	COMP23

## 1.6 <Hardware installation >

- 1. Turn off your computer and unplug the power cord.
- 2. Remove the cover of your computer.
- Touch the metal part on the surface of your computer to neutralize Any static electricity that might be on your body.
- 4. Place the MP-878D series into the Motherboard's Mini-PCI slot and connect Corresponding accessories to the MP-878D series.
- 5. Replace the cover of your computer chassis
- 6. Plug in the power cord and turn on the computer.

### 1.7 <Software installation >

When you completed the Hardware installation, the system will auto –detect And a message pops up as following:



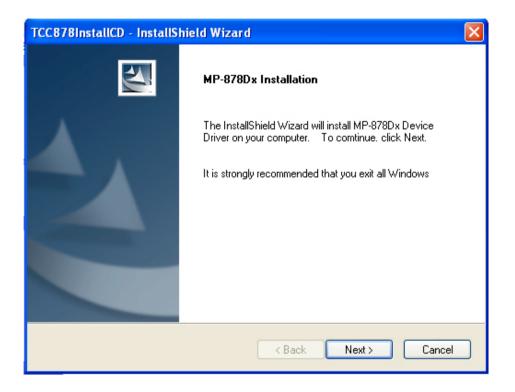
Please all select "Cancel"

Then, Insert the driver CD into your system's CD-ROM to Set up MP-878D series.

Run Setup.exe

(E:/Media/SINGLE.EXE\_IMAGE/Disk Image/Disk/Setup.exe)

Please select "Next" to continue.



Please read the following License Agreement. Press the Page Down key to see the rest of agreement and click "Yes" to continue the installation.

TCC878InstallCD - InstallShield Wizard	×
License Agreement Please read the following license agreement carefully.	
Taiwan Commate Computer(TCC) Inc. Software License Agreement	
<ul> <li>I accept the terms of the license agreement</li> <li>I do not accept the terms of the license agreement</li> <li>InstallShield</li> </ul>	
< Back Next > Cancel	

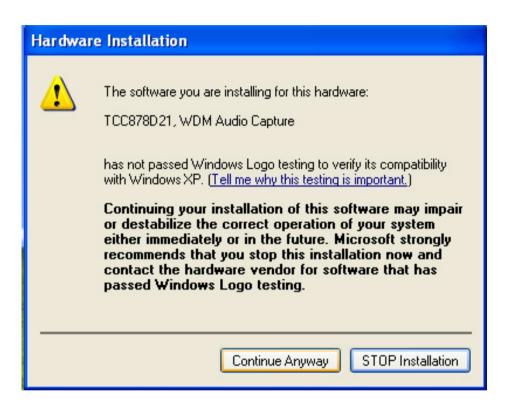
Please fill in your User Name & Company Name. Then, click "Next ".

TCC878InstalICD - InstallShield Wizard	
Customer Information Please enter your information.	
Please enter your name and the name of the company for which you work.	
User Name:	
user	
Company Name:	
user	
InstallShield	
< Back Next >	Cancel

Please select Install in this page.

TCC878InstalICD - InstallShield Wizard	×
Ready to Install the Program The wizard is ready to begin installation.	4
Click Install to begin the installation.	
If you want to review or change any of your installation settings, click Back. Click Cancel t the wizard.	o exit
InstallShield	cel



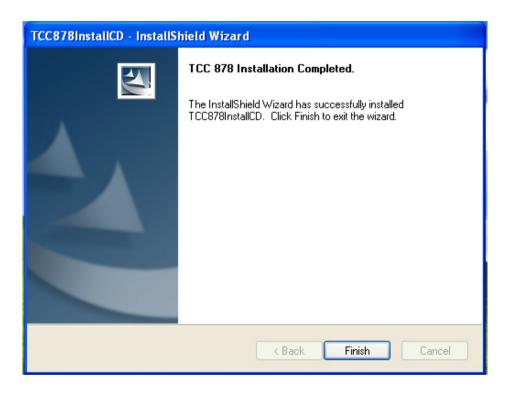




Hardware	Installation
	The software you are installing for this hardware: TCCD22XBar, WDM Crossbar has not passed Windows Logo testing to verify its compatibility with Windows XP. (Tell me why this testing is important.) Continuing your installation of this software may impair or destabilize the correct operation of your system either immediately or in the future. Microsoft strongly recommends that you stop this installation now and contact the hardware vendor for software that has passed Windows Logo testing.
	Continue Anyway STOP Installation



When the following message appears, click "Finish" to complete the installation and restart Windows or your computer.



## 1.8 <Sample Program>

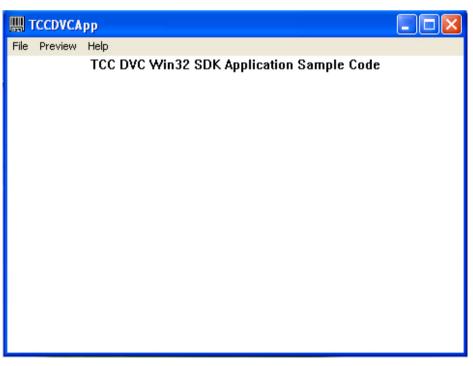
When you completed hardware & software installation, you can use COMMELL "TCCVDCApp" sample program to test.

You can find TCCDVCApp.exe on desktop.



Please double -click "TCCDVCApp.exep, It'll pops up as following.

Then Please Push "Preview" on the left-upper Menu.



You'll get the program interface as following.

Preview Window Dialog		
		Video Control Device ID: 0 V
		Channel 0  Status: Idle Color: N/A  Video Size View Rate: 0  f/s
		Video Resolution: N/A  Video Standard: None Mage Adjustment START SnapShot
		Channel No Setup Device Ch 0 • 1 • 1 Video Input Select Comp © S-Video © Callback Test Close

## Explanation of Sample program function



Device ID:

It is mean BT878I Chipset.

Channel ID: Support Video input per device.

**Snapshot:** Catch the image on working channel.

Callback Test: Catch the series image on working channel

#### Note:

Every channel is work separately, when you want to change any setting, please stop all channels which working.

## <Video Motion>

Please choose "Video Motion", then you can see program interface as following.

Video Motion Demo Dialog	×
Video Motion Detection	
Enable 🔽 Action On Motion: 🗖 Indicator: 🗖	
Threshold: 3	

#### Enable:

If user "check" this box, it will enable video motion detection.

#### **Action On Motion:**

If this box is checked, the registered call back function will be executed, when video motion is been detected. The call back function needs to be registered during application initialization.

#### Indicator:

If this box is checked, it will show red spots as an motion indication, when the video motion is been detected.

#### Threshold:

Select motion detection sensitivity level, the number smaller, the sensitivity stronger.

<Recording Dialog> RESERVE!! No Function at the moment

lecording Dialog		×
Video Compressor:	Enable 🗆	Start Capture
Video Compressor:	Enable F Enable F	Start Capture

#### Video Compressor:

Enable video compressor link, the list box window will list all video compressor components in the system. The user can select its own video compressor from the list, if user has installed own video compressor.

#### Audio Capture Devices:

Enable audio capture device link, the list box window will list all audio capture device in the system. The user can select one of audio device from the list.

#### Audio Compressor:

Enable audio compressor link, the list box window will list all audio compressor components in the system. The user can select its own audio compressor from the list, if user has installed own audio compressor.

## **Start Capture Button:**

Press the button, the test program will start to run, user will see real time video on the preview window.

## Record:

User check this, it will start to record the video.

## 1.9 <How to Get the video> (Based on MP-878D /D2 /D4 /D8) :

For example to get 1 video input (MP-878D) / 4 video input (MP-878D4)

1. Set Video input channel / per chip :

Device : Select 0 (Mean 1st BT878 chip ID)

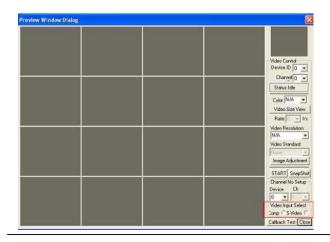
Ch : Select 1 (Mean 1 x Video input for MP-878D)

Ch : Select 4 (Mean 4 x Video input for MP-878D4)

Preview Window Dialog		×
		Video Control Device ID. 0 -
		Channel 0 - Status; Idle Color: N/A - Video Stas View Rate: - Va
		Video Resolution: N/A  Video Standard Time  Image Adjustment START SnapShot
		Channel No Setup Device Ch 0 • - Video Input Select Jorrp C S-Video C Caliback Tex Close

#### 2. Video Input Source Select :

Select Comp (Composite) or S-video for each channel



#### 3. Video Control setting

Device ID : 0 (Mean first BT878 chip)

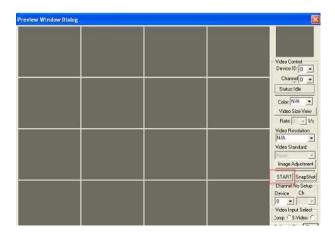
Channel : 0 (First channel - video input for MP-878D / MP-878D4 )

- Channel : 1 (2nd channel video input for MP-878D4)
- Channel : 2 (3rd channel video input for MP-878D4)
- Channel : 3 (4th channel video input for MP-878D4)

Preview Window Dialog		×
		Video Control Device ID: 0 💌 Channel 0 🗸
		Statut:Idle Color:N/A v Video Size View Rate: v //s
		Video Resolution N/A  Video Standard Ninne  Video Adjustment Image Adjustment START SnapShot
		Channel No Setup Device Ch 0 • • • Video Input Select Zomp CS-Video C

4. Push Start , then you'll get the video .

Note : You'll need to push "Start" for each channel after Video Control setting



For example to get 2 video input (MP-878D2) / 8 video input (MP-878D8)

#### 1. Set Video input channel / per chip :

Device : Select 0 (Mean 1st BT878 chip ID) Ch : Select 1 (Mean 1 x Video input for MP-878D2) Ch : Select 4 (Mean 4 x Video input for MP-878D8) Device : Select 1 (Mean 2nd BT878 chip ID) Ch : Select 1 (Mean 1 x Video input for MP-878D2) Ch : Select 4 (Mean 4 x Video input for MP-878D8)

Preview Window Dialog	t.		×
			Video Control Device ID: 0 •
			Channel 0 - Status: Idle Colos: N/A - Video Size View Rate: - Uz
			Video Resolution N/A  Video Standard Video Standard Inage Adjustment START SnepShot
		I II	Channel No Setup Device Ch 0 • • • Video Input Select Zomp C S-Video C

#### 2. Video Input Source Select :

Select Comp (Composite) or S-video for each channel

	Video Conhol Device ID () Channel ()
	Status Ide Color WA Video Size Vie Rate (
	Video Resultión N/A Video Standard Tissee Image Adustre START   Snep5
	Charrell No Set Device Ch 0 - 1 Vice Solido Input Set Zong C Svideo

#### 3. Video Control setting

Device ID : 0 (Mean 1st BT878 chip)

Channel : 0 (First channel - video input for MP-878D2 / MP-878D8 )

- Channel : 1 (2nd channel video input for MP-878D8)
- Channel : 2 (3rd channel video input for MP-878D8)
- Channel : 3 (4th channel video input for MP-878D8)

#### Device ID : 1 (Mean 2nd BT878 chip)

- Channel : 0 ( 2<sup>nd</sup> / 5th channel video input for MP-878D2 / MP-878D8 )
- Channel : 1 (6th channel video input for MP-878D8)
- Channel : 2 (7th channel video input for MP-878D8)
- Channel : 3 (8th channel video input for MP-878D8)

Preview Window Dialog		×
		Video Control Device ID: 0 - Channel 0 -
		Status;Idle Color: N/A  Video Size View Rate: - + 1/z
		Video Resolution N/A  Video Standard Ficce  Image Adjustment START SnepShot
		Channel No Setup Device Ch O Video Input Select Zomp C S-Video C

4. Push Start , then you'll get the video .

Note : You'll need to push "Start" for each channel after Video Control setting

Preview Window Dialog		X
		Video Control Device ID: 0 - Channel 0 - Status:tidle Color: N/A - Video Size View Rate - Uz
		Video Resolution N/A • Video Standard Plone • Image Adjustment START SnapShot
		Channel No Setup Device Ch 0 • • Video Input Select Jomp S-Video C Callback Test Close

## **Contact Information**

Any advice or comment about our products and service, or anything we can help you please don't hesitate to contact with us. We will do our best to support you for your products, projects a business.

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