SD-02416

User's Manual

Edition 1.0 2008/03/21



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Manual Classification

In order to assist in the use of this product, Taiwan Commate has categorized the user manual. For detailed product information and specifications, please carefully read the "Product User Manual".

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Packing List:

Hardware:

SD-02416 PCI Capture Card x1

Cable kit:



D-SUB 9 Cable x 1



4 BNC Cable x 3

CD Content:

Drivers (Including User's Manual)

1.0 < Product Specification>

| General Specification | | | | |
|-----------------------|---|--|--|--|
| Form Factor | PCI with 124-pin interface | | | |
| Controller | TW6802 | | | |
| Accessories | 1 x (3 x 8pin) D-SUB 9 Cable 1 to 8 BNC Cable x 1 1 to 4 BNC Cable x 1 | | | |
| Features | 16 channel video input for camera Support 30/25 fps at NTSC/PAL Support 720*480 / 720*576 (NTSC / PAL) resolution | | | |

1.1 < Mechanical Drawing>



2.1 <Connector Location>



Video input

2.2 <Jumper Reference>

Card ID Selection:

| Pin | Description |
|-----------|----------------|
| JSEL1 | Select ID Card |
| JSEL2 | Select ID Card |
| JSENABLE1 | Reserve |



| | JSEL1 | JSEL2 |
|--------|-------|-------|
| Card 0 | | |
| Card 1 | | |
| Card 2 | | |
| Card 3 | | |

Default setting

2.3 <Connector Reference>

2.3.1 <GPIO Interface>

Connector: **J4** , **J5** , **J6** , **J7** Type: 20-pin (10x2) Header



| | Dev | vice 1 | De | vice 2 | Dev | vice 3 | Dev | vice 4 |
|--------|-----|--------|----|--------|-----|--------|-----|--------|
| GPIO 1 | J4 | Pin 4 | J4 | Pin 6 | J4 | Pin 8 | J4 | Pin 10 |
| GPIO 2 | J5 | Pin 4 | J5 | Pin 6 | J5 | Pin 8 | J5 | Pin 10 |
| GPIO 3 | J6 | Pin 4 | J6 | Pin 6 | J6 | Pin 8 | J6 | Pin 10 |
| GPIO 4 | J7 | Pin 4 | J7 | Pin 6 | J7 | Pin 8 | J7 | Pin 10 |
| GPIO 5 | J4 | Pin 12 | J4 | Pin 14 | J4 | Pin 16 | J4 | Pin 18 |
| GPIO 6 | J5 | Pin 12 | J5 | Pin 14 | J5 | Pin 16 | J5 | Pin 18 |
| GPIO 7 | J6 | Pin 12 | J6 | Pin 14 | J6 | Pin 16 | J6 | Pin 18 |
| GPIO 8 | J7 | Pin 12 | J7 | Pin 14 | J7 | Pin 16 | J7 | Pin 18 |

2.3.2 < Video input connector >



(1) Standard video input: J9, J11, J14, J17

J9/J11/J14/J17 is the standard video input of SD-02416. Video resolution and real time frame rate can be available through this connector.

(2) 16 channels input by shared frame: J1, J2, J3

With share frame technology, SD-02416 can receive up to 16 channel composite inputs through J1, J2, J3. (The resolution and captured frame rate is related to the performance of the system hardware and limited by PCI bandwidth.)

3.1 <Driver Setting>

1. When you completed the Hardware installation, Please select file location "L:\Driver\SD-02416\SD02416\SETUP".



2. Please choose "Next".



3. Please choose ''I accept the terms of the license agreement'' the press ''Next''.

| cense Agreement | | |
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4. Please fill in "User Name" ` "Company Name" the press "Next".

| Customer Information Please enter your information. | | |
|--|---------------------------------------|--|
| Please enter your name and the name | me of the company for which you work. | |
| User Name: | | |
| Gary | | |
| Company Name: | | |
| Tcommate | | |
| | | |
| | | |
| | | |
| tallShield | | |

5. Please choose "complete" the press "Next".



6. Please press "Install".



7. Please TCC2401 Capture and TCC2401A Audio Capture both choose "Continue Anyway".

| Hardwa | re Installation |
|--------|--|
| 1 | The software you are installing for this hardware: TCC2401 Capture 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 |



8. Please choose "Finish".

| TCCDVC2416 - InstallShiel | d Wizard |
|---------------------------|--|
| | InstallShield Wizard Complete The InstallShield Wizard has successfully installed TCCDVC2416. Click Finish to exit the wizard. |
| | < Back Finish Cancel |

9. After driver install, please enter Device Manager , Driver Install OK!!



3.2 <Sample Program>

1. You can use COMMELL "TCCVDCApp" sample program to test and you can appliance TCCDVCApp.exe on desktop.



2. Please choose "Preview".

| TCCDVCApp | | _0_ |
|------------------|--------------|-----|
| ile Preview Help | | |
| | Hello World! | |
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| | | |

3. Then you can see program interface as following.

| | | - Video Control Device ID: 1 - |
|--|--|--|
| | | Channel ID: 0 I |
| | | Video Resolution N/A T Video Standard None T Image Adjustment START SnapShot |
| | | Channel No Setup Device Ch 1 2 1 2 Control Unit GPIO Register Caliback Test Close |

Explanation of Sample program function

| Video Control |
|-----------------------|
| Device ID: 1 💌 |
| Channel ID: 0 💌 |
| Status: Idle |
| |
| Frame Rate: 🛛 💌 /s |
| Video Resolution: |
| N/A |
| Video Standard: |
| |
| |
| START SnapShot |
| Channel No Setup |
| Device Ch |
| |
| Control Unit |
| GPI0 Register |
| Callback Test Close |
| 99 <u>(</u> 1997) (19 |

Device ID:

It is mean Techwell Chipset. One SD-02416 have 4 chipset, so, you can select 0/1/2/3.

Channel ID:

Per chip can support 4 Video input, So, You can select 0/1/2/3 for Video input.

But you'll need to set "Channel No Setup" first.

Channel No Setup:

Please set how many video-In channels per Device. Per device is allow 4 channels.

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.

3.3 < Device ID & Channel ID sample>

1. If you Setting 4 Device as 4 Channels. The program show will be as following.

| 1 | Preview Wistlow Dislog | | | | × |
|---|------------------------------|---------------------------------|---------------------------------|---------------------------------|--|
| | Device ID: 0 Channel ID:0 | Device ID : 1 Channel ID : 0 | Device ID : 2 Channel ID : 0 | Device ID : 3 Channel ID : 0 | Video Control |
| | | | | | Channel ID: 0 I |
| | | | | | Video Resolution N/A Video Standard None V Image Adjustment START SnapShot |
| | | | | | Channel No Setup Device Ch 1 × 1 × Control Unit GPIO Register Caliback Test Close |

2. If you Setting 4 Device as 16 Channels. The program show will be as following:

| Preview Window Dialog | | | | × |
|-----------------------------|---|---------------------------------|---------------------------------|---|
| Device ID Channel ID | : 0 Device ID : 0 : 0 Channel ID : 1 | Device ID : 0 Channel ID : 2 | Device ID : 0 Channel ID : 3 | - Video Control Device ID: 1 - |
| Device ID : Channel ID : | 1 Device ID : 1 0 Channel ID : 1 | Device ID : 1 Channel ID : 2 | Device ID : 1 Channel ID : 3 | Channel ID: 0 I |
| Device ID : Channel ID : | 2 Device ID : 2 0 Channel ID : 1 | Device ID : 2 Channel ID : 2 | Device ID : 2 Channel ID : 3 | Video Resolution N/A Video Standard None Video Standard Image Adjustment START SnapShot |
| Device ID : Channel ID : | 3 Device ID : 3 0 Channel ID : 1 | Device ID : 3 Channel ID : 2 | Device ID : 3 Channel ID : 3 | Channel No Setup Device Ch 1 1 1 1 Control Unit GPIO Register Calback 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 and business.

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