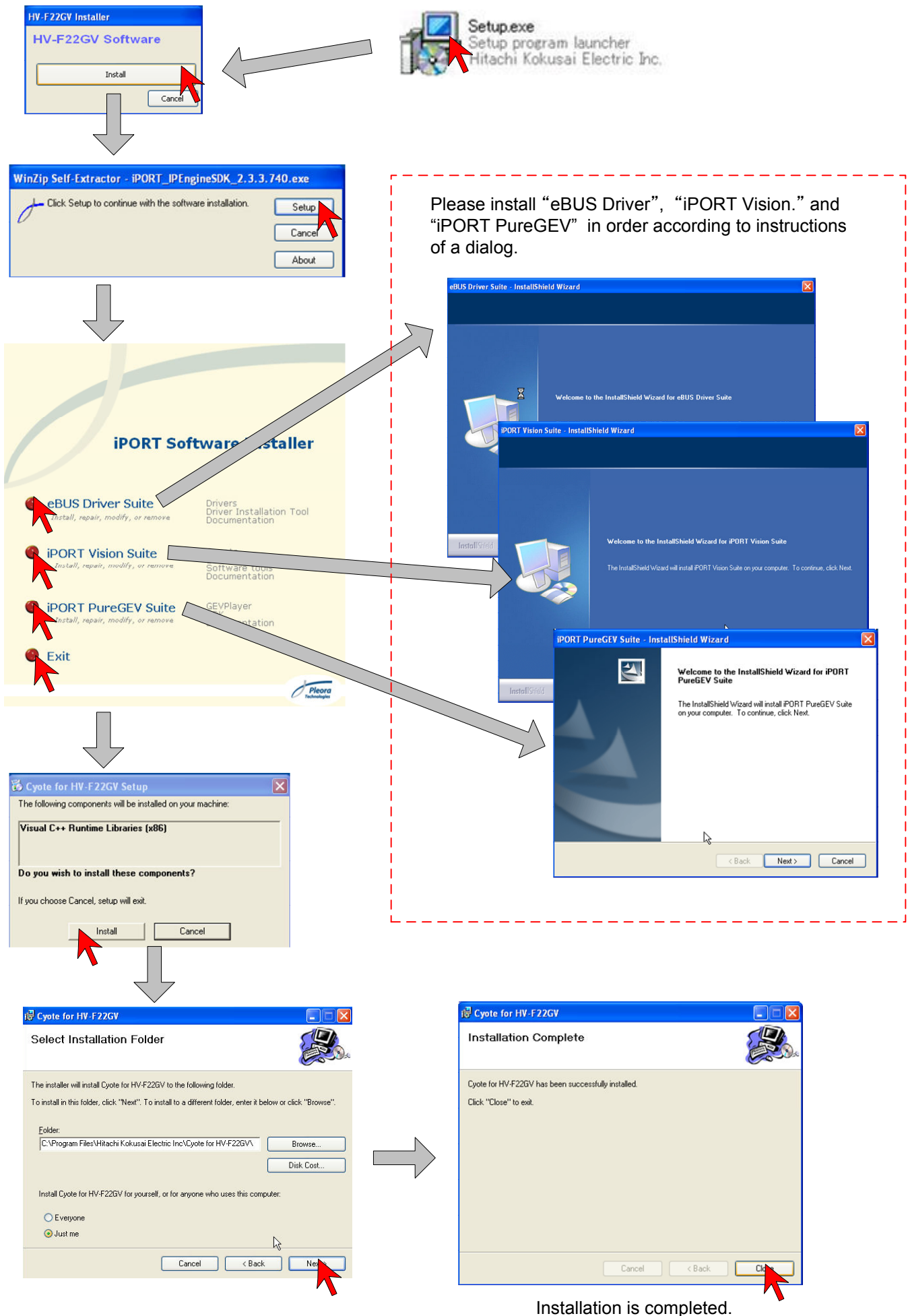


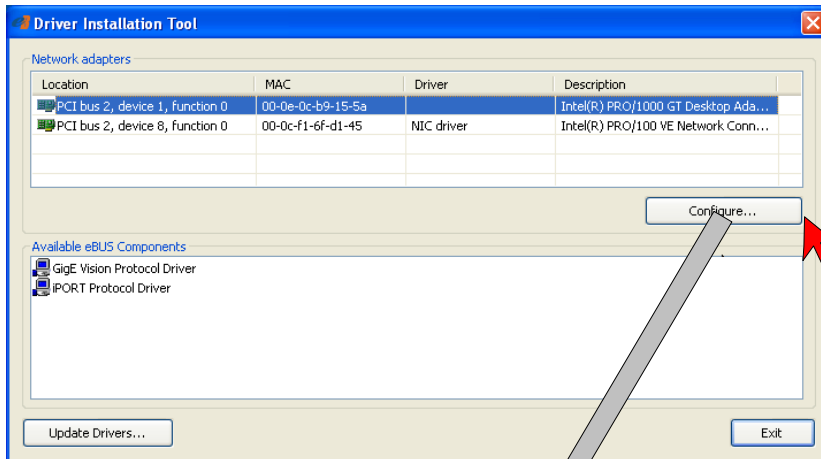
1.Installation of software



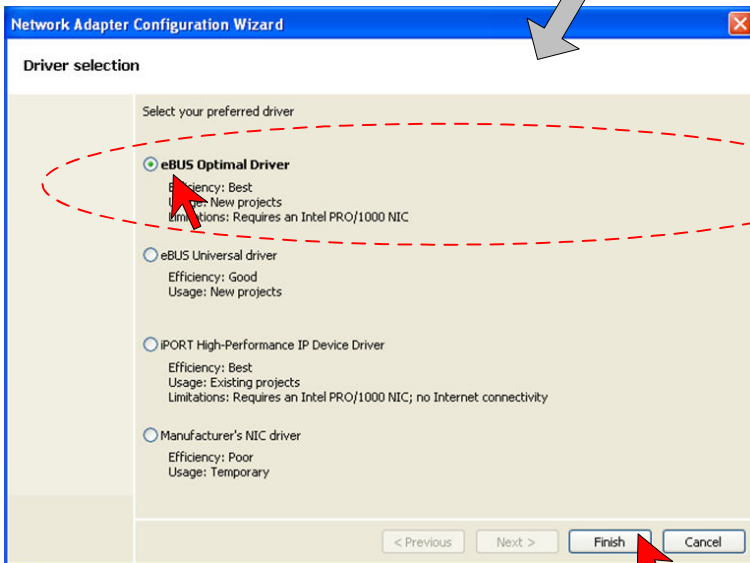
2. Setup of a driver (1/2)



2.1
Run "Driver Installation Tool" from start menu.

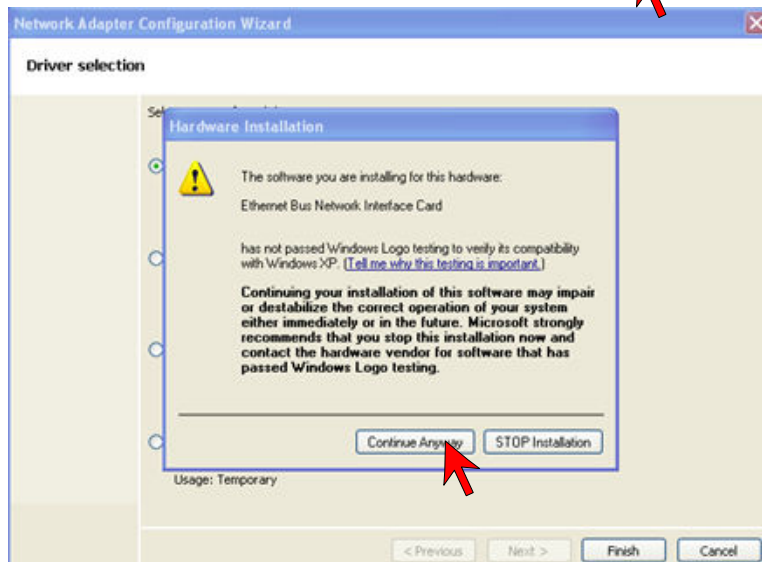


2.2
Click Configure



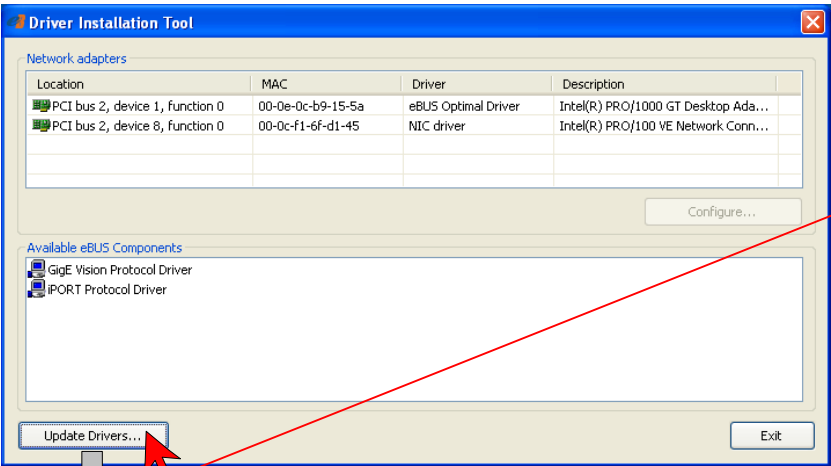
2.3
Select "eBUS Optimal Driver"

2.4
Click Finish

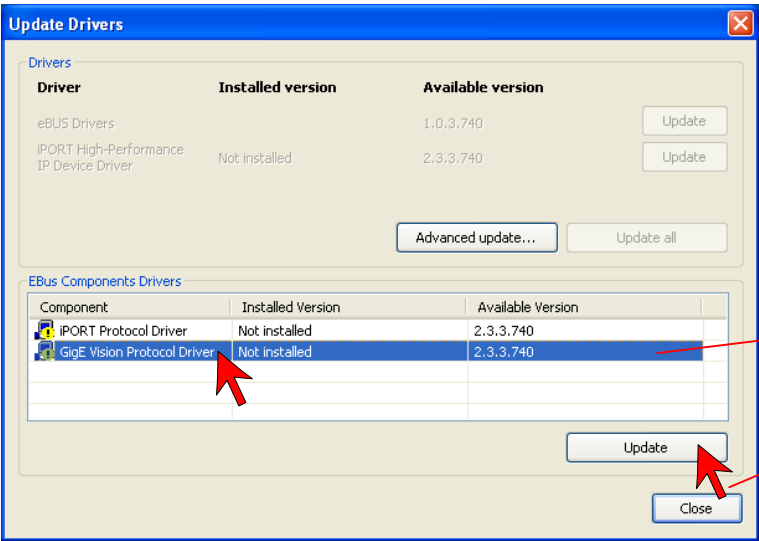


Note.
Even if the dialog of warning is displayed,
please continue as it is.

2. Setup of a driver (2/2)

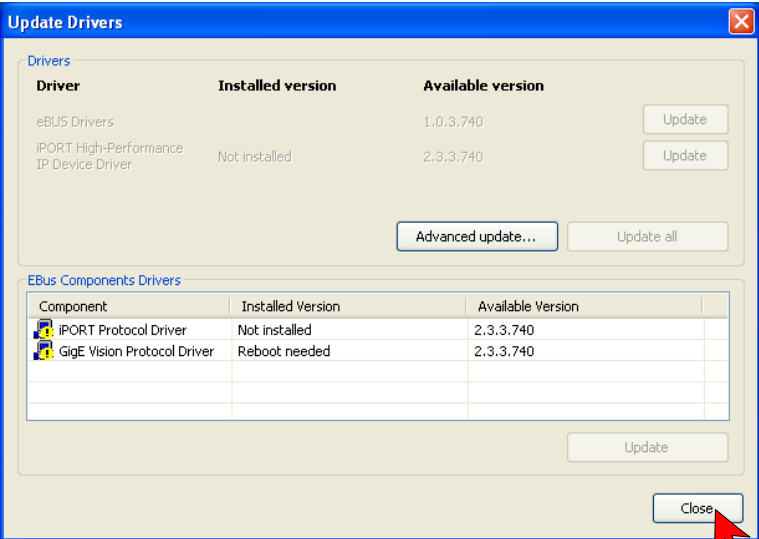


2.5
Click "Update Drivers"

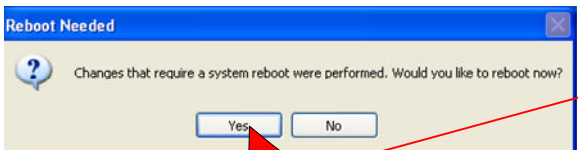


2.6
Select "GigE Vision Protocol Driver"

2.7
Click "Update"



2.8
Click "Close"



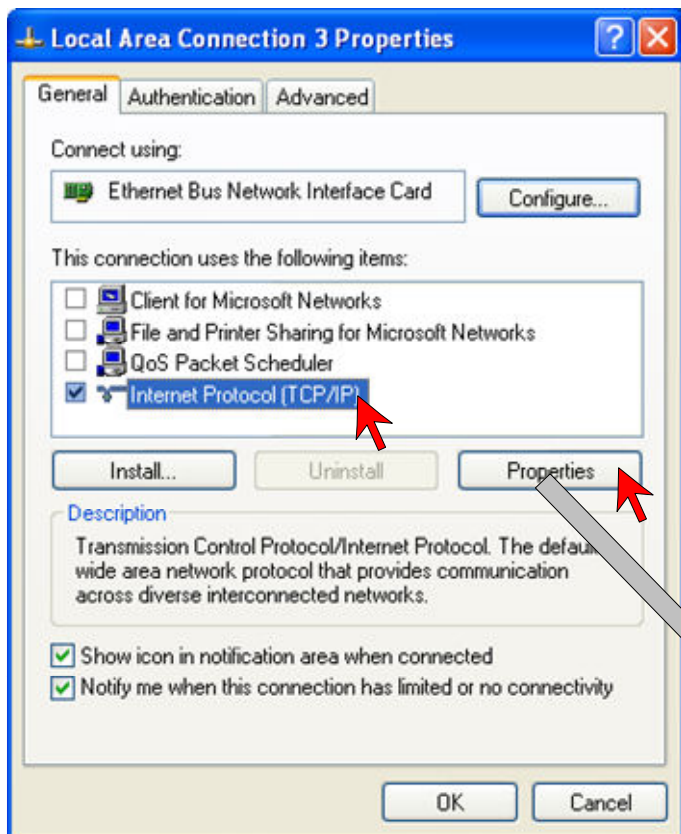
2.9
Click "Yes"
(In order to make it complete, you need to reboot your PC.)

3. Configuring your NIC

(In the case of static IP address)

To configure your NIC for a dedicated connection:

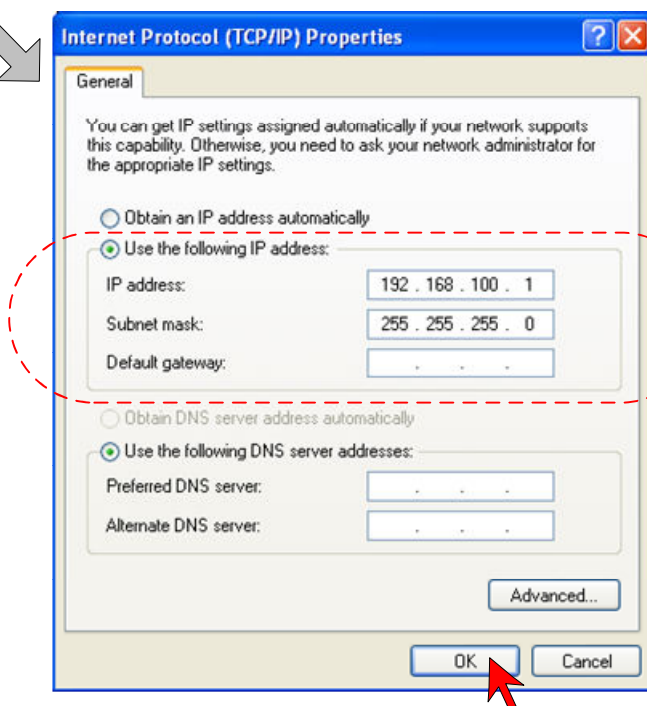
- 3.1. From the Windows Start menu, select Start > Control Panel.
The Control Panel dialog appears.
- 3.2. Double-click Network Connections.
The Network Connections dialog appears.
- 3.3. Right-click your Local Area Connection and select Properties.
The Local Area Connection Properties dialog appears.



3.4. Make the following settings:

- ☐ Client for Microsoft Networks
- ☐ File and Printer Sharing for Microsoft Networks
- ☐ QoS Packet Scheduler
- ☒ Internet Protocol (TCP/IP)
- ☒ Show icon in notification area when connected
- ☒ Notify me when this connection has limited or no connectivity

- 3.5. Select Internet Protocol (TCP/IP) and click Properties.
The Internet Protocol (TCP/IP) Properties dialog appears.



- 3.6. Enable Use the following IP address and make the following settings:

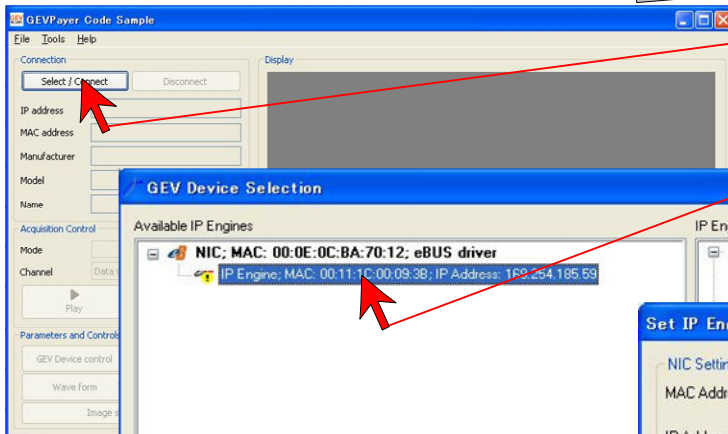
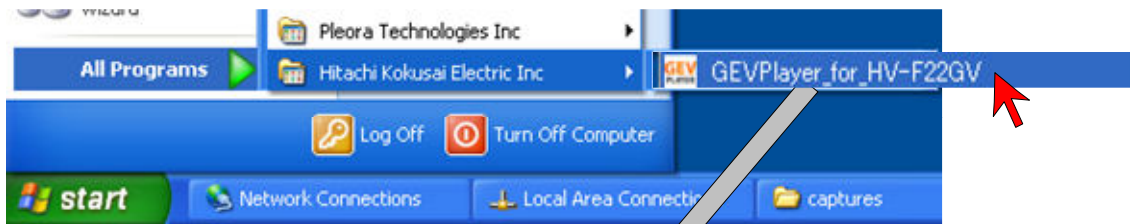
IP address	192.168.100.001
Subnet mask	255.255.255.0
Default gateway	leave blank

- 3.7. Click OK to close the Internet Protocol (TCP/IP) Properties dialog.
- 3.8. Click Close to close the Local Area Connection Properties dialog.
Your NIC is now configured for a dedicated connection. When you cable your NIC to another NIC, Windows will recognize the connection without any delay.

Note.

Refer to the “(iPORT eBUS Deiver Suite) Documentation ” for more detailed information.

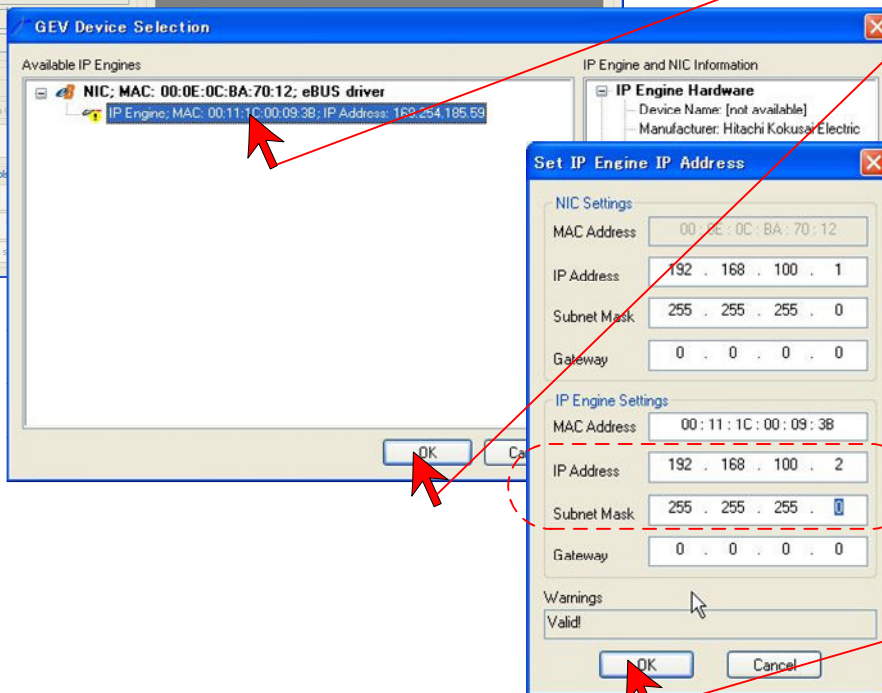
4. Starting of GEVPlayer for HV-F22GV (1/7)



4.2 Click "Selecct/Conect"

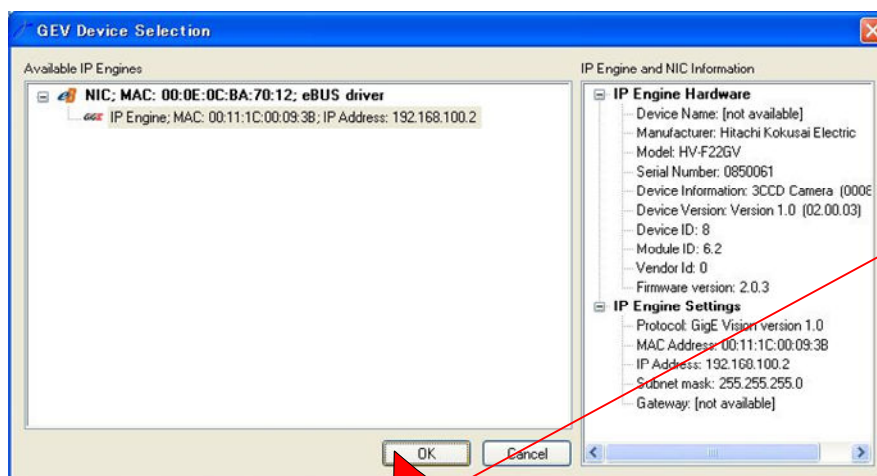
4.3 Select "IP Engine;..."

4.4 Click "OK"



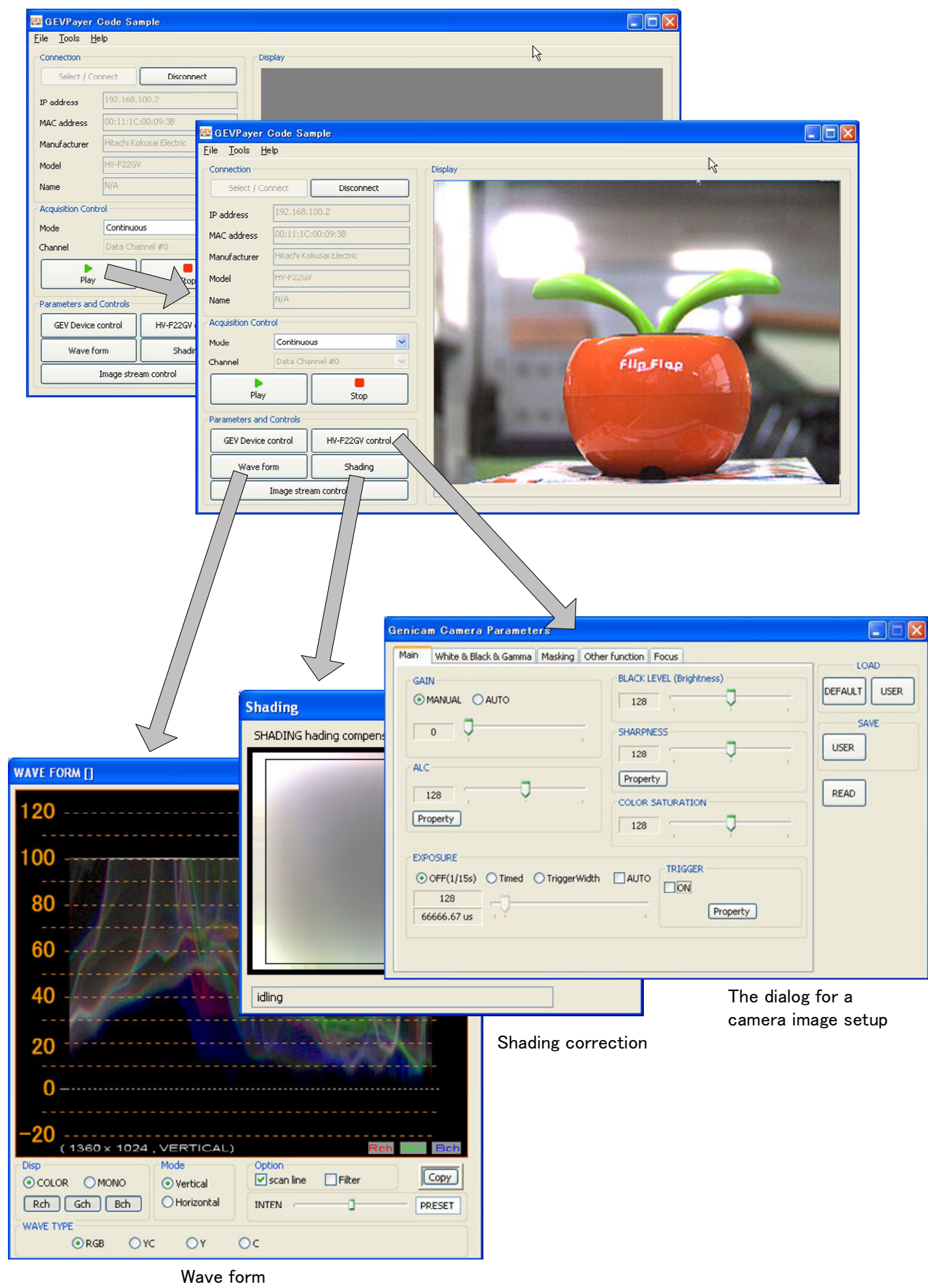
4.5 Make the following settings:
IP Address 192.168.100.2
Subnet Mask 255.255.255.0

4.6 Click "OK"



4.7 Click "OK"

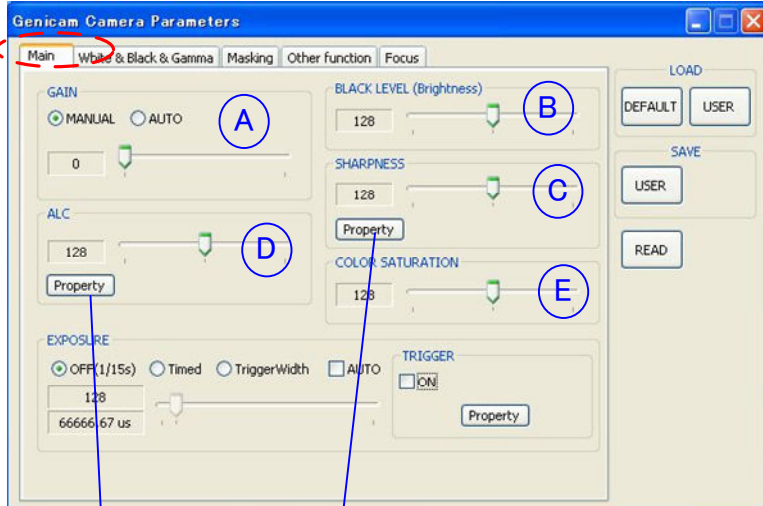
4. Starting of GEVPlayer for HV-F22GV (2/)



Note.

Refer to the “iPORT Pure GEV Documentation” for more detailed information.

4. Starting of GEVPlayer for HV-F22GV (3/)



(A) GAIN

Electrical sensitivity adjustment .

MANUAL : Gain is manually adjustable from 0 to +12 dB.
AUTO : Gain is automatically adjusted from 0 to +12 dB for proper video level.

(B) Black Level (BRIGHTNESS)

Master black level adjustment .

(C) SHARPNESS

Sharpness level adjustment (edge enhancer).

(C-1) LEVEL DEPENDENT

Sharpness is suppressed at video levels below the setting value.
Use mainly to avoid noise enhancement in dark signal components.

(C-2) FREQUENCY

Sharpness edge width can be adjusted.

(C-3) CRISP

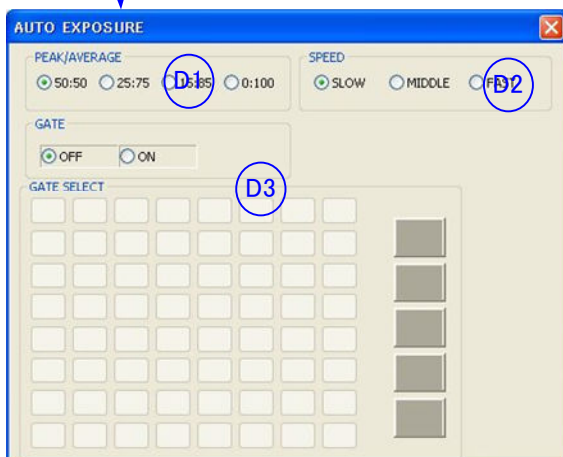
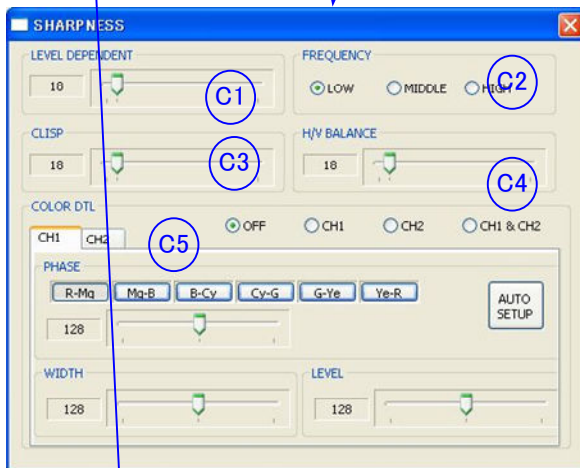
This feature reduces noise when sharpness enhanced input noise

(C-4) H/V BALANCE

Setting for horizontal and vertical sharpness balance.

(C-5) COLOR DTL

Chromatic sharpness can be adjusted in the range of hue set.
The hue can be set in different ranges for channels 1 and 2. The color detail channel 1 width/level can be set in any combination. Select channel 1 or 2, then set the hue for fine adjusting.



(D) ALC(AUTO EXPOSURE)

Both gain and shutter speed are always adjusted automatically for proper video level.

(D-1) PEAK/AVERAGE

Sets PEAK or AVERAGE signal level detection for the AUTO EXPOSURE function..

(D-2) SPEED

AGC and AES response speed

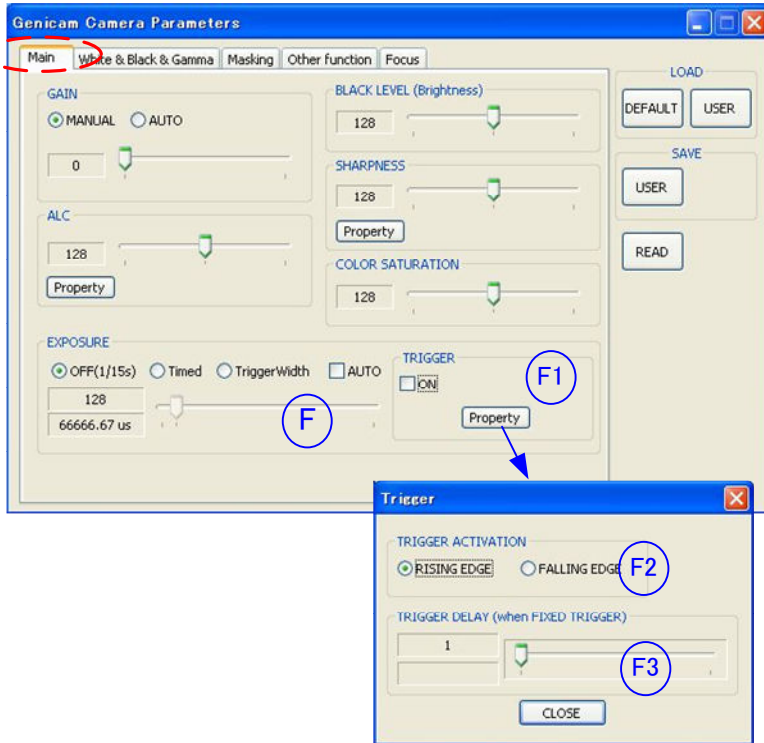
(D-3) GATE/GATE SELECT

AUTO EXPOSURE signal detect area (8 x 8) can be set as desired.

(E) COLOR SATURATION

Total color saturation adjustment.

4. Starting of GEVPlayer for HV-F22GV (4/)



(F) Exposure(Shutter)

Exposure time (Electronic shutter speed) adjustment.

OFF : The shutter speed is fixed in 1/15 sec .

Timed : Timed Exposure. The shutter speed is variable.

TriggerWidth: When Trigger "ON", The Exposure time is controlled by the trigger pulse width.

AUTO : When Exposure is "Timed" and Trigger isn't "ON", The shutter speed is always adjusted automatically for proper video level when excessive light has entered.

(F-1) TRIGGER ON

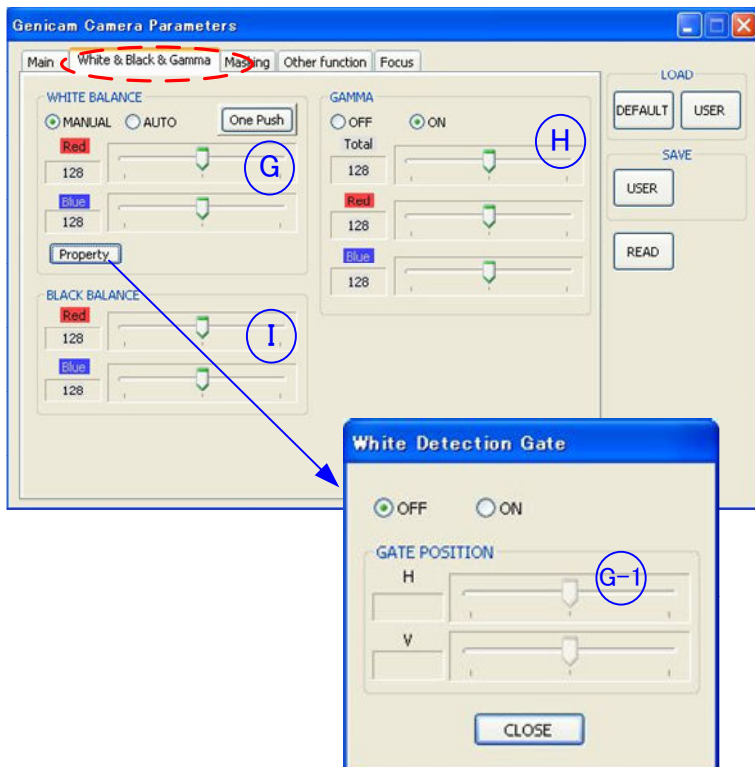
The external trigger operation available.

(F-2) TRIGGER ACTIVATION

The activation mode of the trigger.

(F-3) TRIGGER DELAY

Trigger delay time is adjusted.



(G) WHITE BALANCE

White balance adjustment

MEMORY : White balance is held at the time when the AWB is set.

AUTO : White balance is always adjusted automatically.

One push (AWB): White balance is adjusted only once.

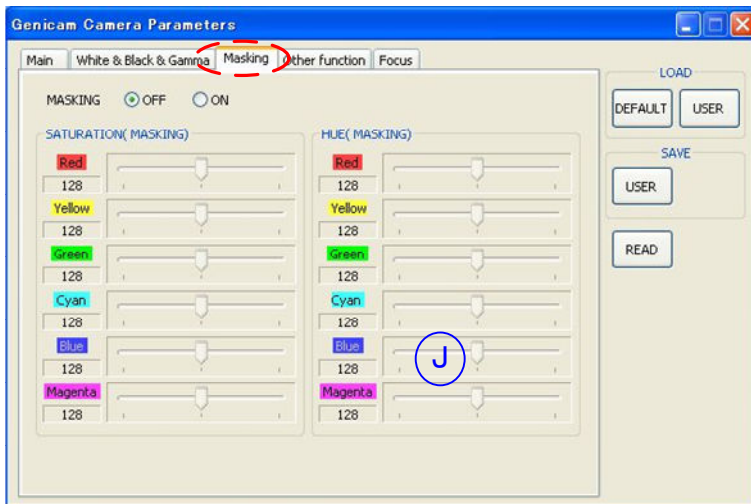
(G-1) White detection gate

Square window for detecting white balance appears in the screen. White balance is computed only in the window.

(I) BLACK BALANCE

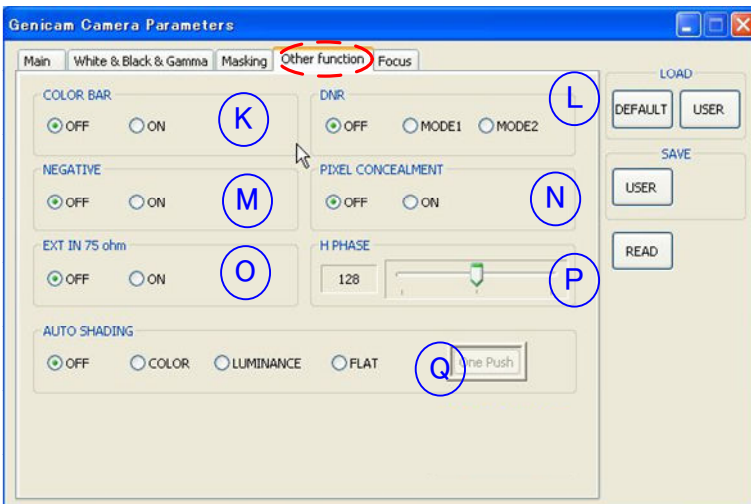
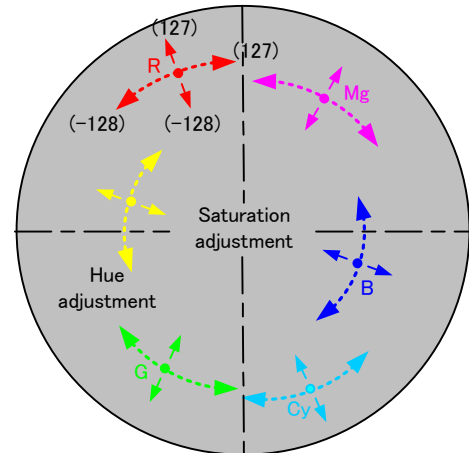
Adjust black balance to provide proper color tone at a dark part of video image.

4. Starting of GEVPlayer for HV-F22GV (5/)



(J) MASKING

Saturation and hue of 6 primary colors: R-G-B-Ye-Cy-Mg can be independently varied (6 vector independent masking). Color reproduction and fidelity are effectively enhanced.



(K) COLOR BAR

Color Bars test pattern is available.

(L) DNR (Digital Noise Reduction)

Improve Signal to Noise ratio(S/N) by digital noise reduction. Although MODE 2 provides greater noise reduction, there is some sacrifice in resolution.

(M) NEGA

Brightness and darkness of picture is reversed.

(N) PIXEL CONCEALMENT

White spot defect on picture element can be compensated.

(O) EXT IN 75 ohm

Termination resistance of External HD/VD input is selectable.

(P) H PHASE

Horizontal phase adjustment at external HD input.

(Q) AUTO SHADING

Chromatic shading due to lens aberration or light unevenness can be automatically compensated.

NOTE:

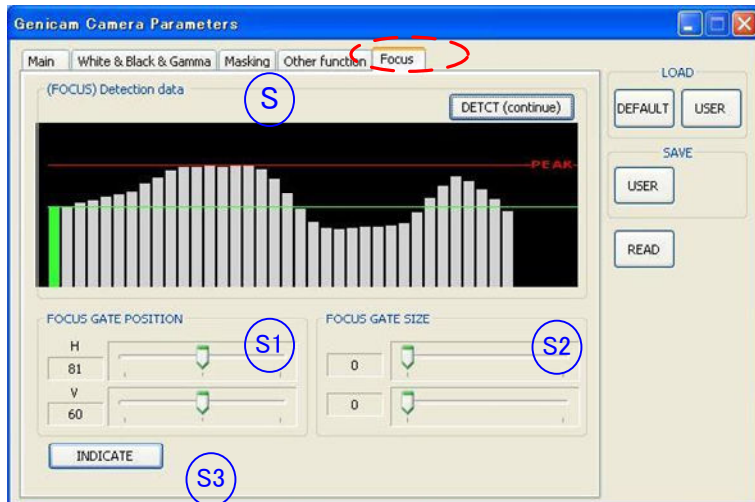
1. When using a camera for the first time or replacing the lens, execute shading correction.
2. When using under the special type light source, for example fluorescent, mercury, etc., a flicker can prevent white balance adjustment or shading correction. In such cases, adjust the shutter speed to minimize the flicker before white balance adjustment or shading correction.

LUMINANCE : Auto shading compensation operates to maintain uniform vertical level for the RGB video

COLOR : Auto shading correction operates to minimize vertical color irregularity in the image.

FLAT : Auto shading compensation operates to maintain uniform RGB video signal level for the full screen.

4. Starting of GEVPlayer for HV-F22GV (7/7)



(S) FOCUS Detection

Integrated or peak value of sharpness signal is automatically calculated in every field. The value is available for auto focus system.

(S-1) FOCUS GATE POSITION

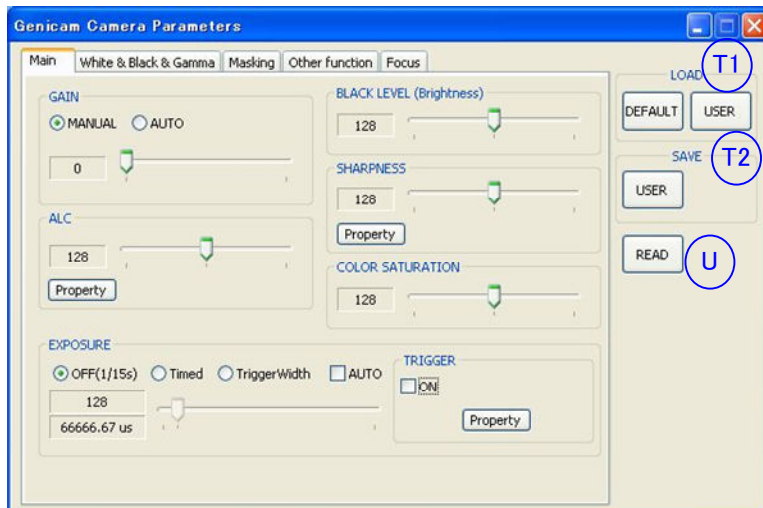
Focus detection position is moved horizontal and vertical.

(S-2) FOCUS GATE SIZE

Adjust the size of the Focus detection gate .

(S-3) INDICATE

INDIGATE Focus gate window is selectable visible(ON) / invisible(OFF).



(T1) FILE SAVE

Save the setting data to an EEPROM of camera.
4 sets of memory are available.

(T-2) FOCUS GATE POSITION

Loading saved data

(U) READ

The current setup of a camera is read.