



**MEGA PIXEL**

# **Digital Still Camera User's Manual**

**Ver. 1.1**

**For WINDOWS 95, 98, NT4.0**

## ***Content :***

This document is for Dimera 130 P /150 P operating direction;  
and divided into 7 parts showed as following:

A. Camera Functional Explanation

B. Setup Your Camera

C. Status LCD Item

D. Use the Camera

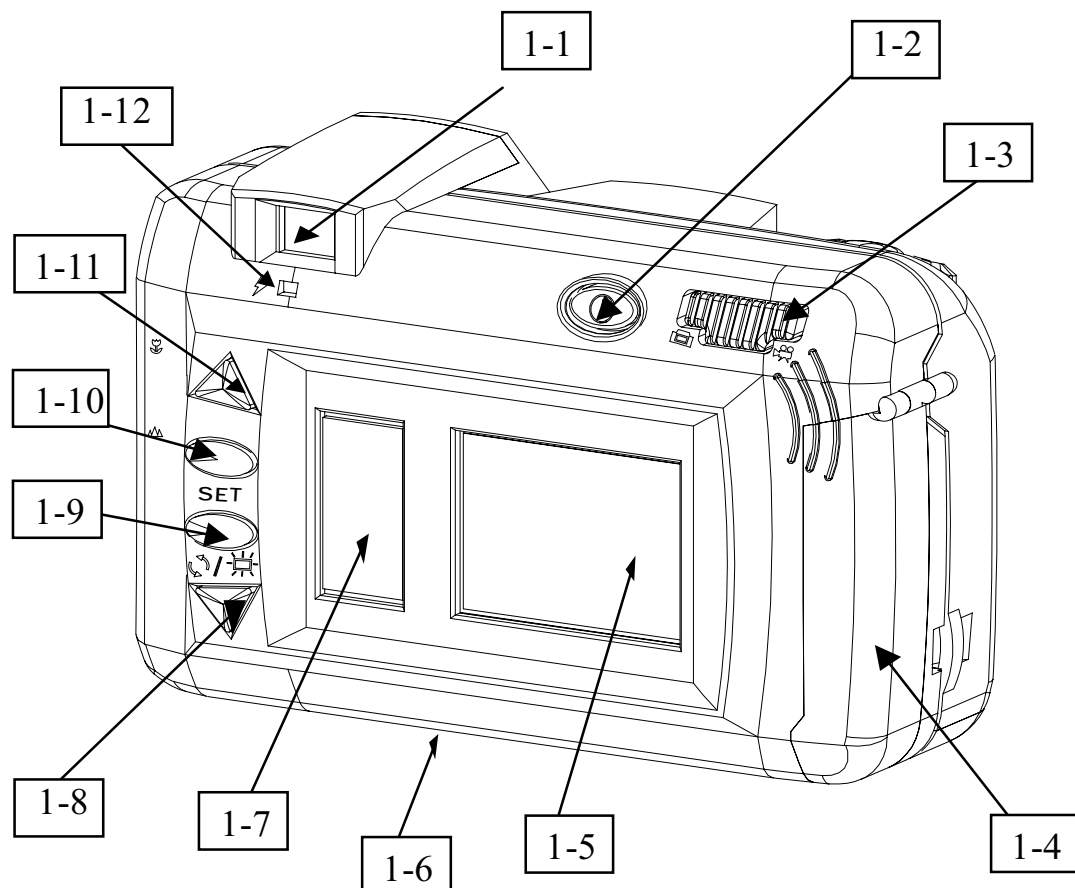
E. Software Operating

F. DSC Specification

G. LED Message and Important Message

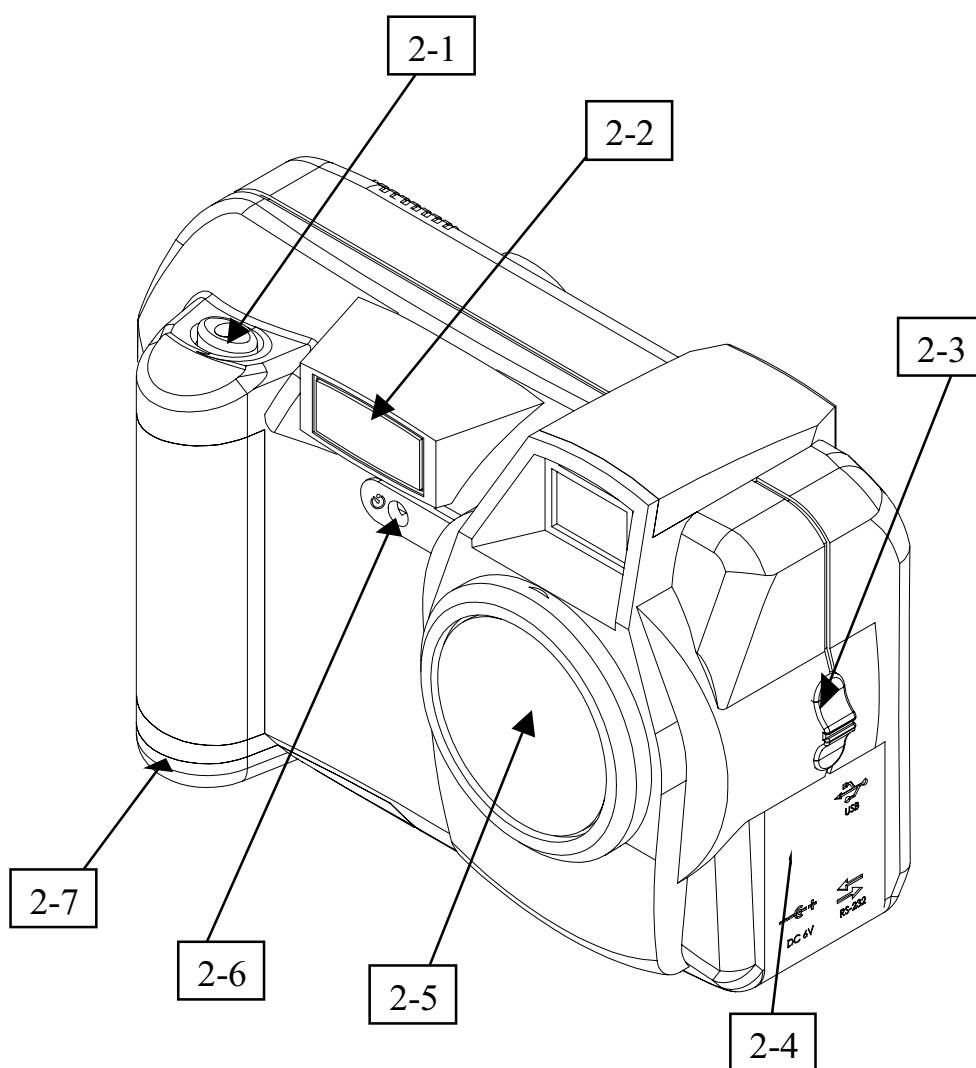
## A. Camera Functional Explanation :

The major parts of Mega Pixel Digital Still Camera are showed in figure 1 and figure 2.



1-1	Optical Viewfinder	1-2	Power On/Off Button	1-3	Mode Selecting Switch
1-4	CF Card Cover	1-5	1.8" Color LCD	1-6	Color LCD Brightness Control Wheel
1-7	B/W Status LCD	1-8	Down Button	1-9	Mode Change // LCD On/Off Button
1-10	Mode Setting // O.K. Button	1-11	UP Button	1-12	Flash Light Charge LED

Fig 1 Rear Side View



2-1	Shutter Release Button	2-2	Flash Light Assembly	2-3	Normal/Macro Control Switch
2-4	Connector Cover	2-5	Optical Lens Assembly	2-6	Self-timer LED
2-7	Battery Cover				

Figure 2 Front Side View

## **! Warning:**

- 1. This camera is not designed for Water Resistant. To prevent electrical shock, do not use the camera in the rain or snow. If the camera drop into water, please contact your supplier for examining the camera before use.*
- 2. To prevent the electrical shock, do not attempt to disassemble this camera.*
- 3. Storing the camera in a cool, dry place.*
- 4. To prevent damaged the Memory Card, Shut off the camera before you plug in / out the memory card.*
- 5. For saving the energy of batteries, use the AC Adapter when you connected to PC.*
- 6. To prevent damaging the camera, use the identified AC Adapter.*
- 7. For extending the operating time, Please use the Alkaline batteries.*
- 8. If the Status LCD display that the battery power is not sufficient, the Flash Light will set to “ off “ automatically. Please replace the batteries as soon as you can.*

## B. Setup Your Camera

Following the steps to setup your camera :

1. Tied up the camera with the wrist strap bundled with camera.



2. Installing the batteries.



<Caution> : 1. To prevent damaged the camera, use the AA alkaline batteries with the way showed on the battery seat.

2. Do not disassemble, puncture, recharge, or mutilate the batteries. Do not expose the batteries to flame.

3. For extending the operating time, Please use the Alkaline batteries.

4. If the Status LCD display that the battery power is not sufficient, the Flash Light will set to “ off “ automatically. Please replace the batteries as soon as you can.

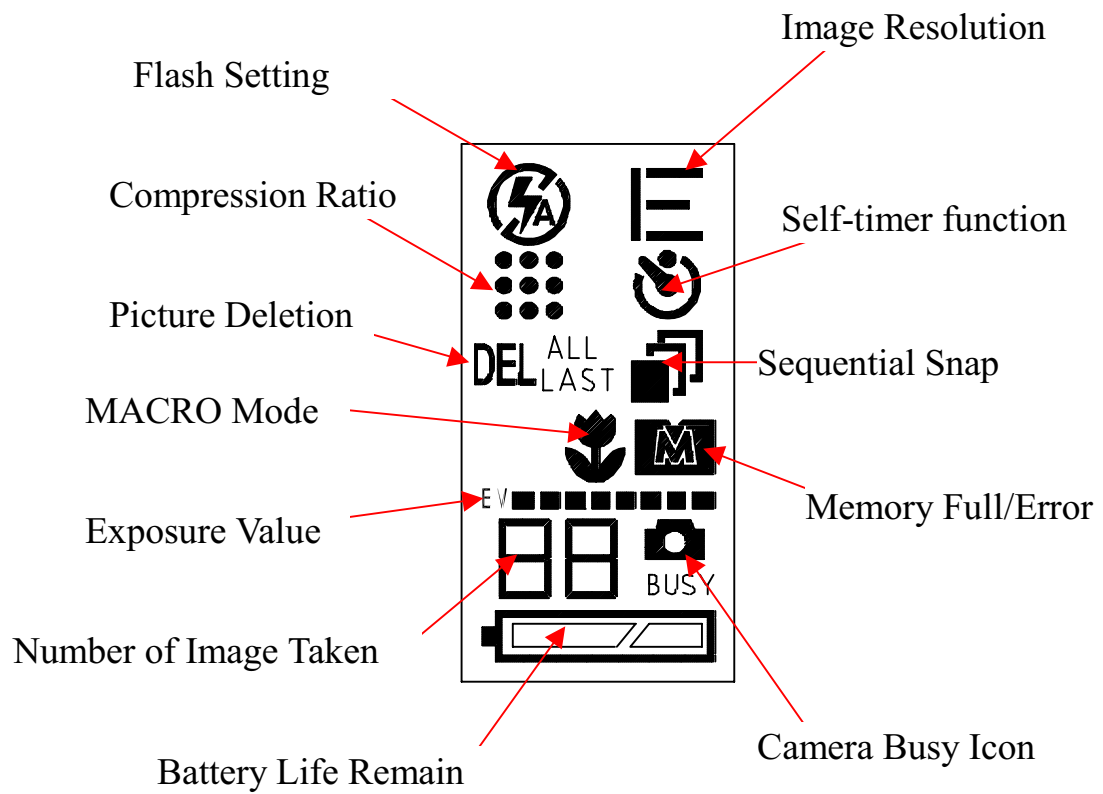
4. Installing the Memory Card.



5. Push the power button to power on the camera.

6. Capturing images with the camera.

## C. Status LCD Item





## D. Use the Camera :

This Camera can be operated in both Camera Mode ( taking Pictures ) and Play Back Mode ( pictures play back ). You can select the mode you want by switching the Mode Selecting Switch (1-3).

### (1) Taking the pictures with Optical Viewfinder :

1. Switching the Mode Selecting Switch (1-3) to camera mode ( REC side ) on the back of camera.
2. Aim at the target by Optical Viewfinder (1-1). Press the Shutter Release Button ( 2-1) whenever you want.

***<Note> : The focus range is 60 cm to infinite. If the target distance is less than 60 cm, please use the MACRO function. In the MACRO Mode, the focus distance is 20 cm.***

3. Wait for image processing and saving into CF card till that Camera Busy Item on the B/W Status LCD is off to take next picture.

### (2) Taking the pictures with 1.8” LCD :

1. Switching the Mode Selecting Switch (1-3) to camera mode ( REC side ) on the back of camera.
2. Press the Mode Change // LCD On/Off Button (1-9) to lit on the 1.8” LCD.
3. Aim at the target by live previewing on 1.8” LCD. Press the Shutter Release Button ( 2-1) whenever you want.

4. Wait for image processing and saving into CF card till that Camera Busy Item on the B/W Status LCD is off to take next picture.

*<Note>: 1. For saving the energy, the 1.8" LCD (1-5) is always off. If you want to take a live preview with 1.8" LCD, you can press the Mode Change // LCD on/off Button (1-9) to light on the 1.8" LCD.*

*2. To control the brightness of 1.8" LCD (1-5), you can adjust the Color LCD Brightness Control Wheel (1-6) on the bottom of camera till the image on LCD is clear.*

*3. If you want to increase / decrease the brightness (Exposure Value) of picture ( to Control the Gain of picture ), you can simply push the UP(1-11) or Down (1-8) Button till the image Exposure Value is acceptable .*

*4. The focus range is 60 cm to infinite. If the target distance is less then 60 cm, please use the MACRO function. In the MACRO Mode, the focus distance is 20 cm.*

### (3.) Digital Zoom Function :

If the target distance is too far for you to take picture, you can snap the images in Digital Zoom mode when the 1.8" Color Monitor is on. Please follow the steps below :

1. Set the 1.8" Color LCD on, and you can see the image you aim at on the screen.
2. Press the Shutter Release Button (2-1) lightly till the first segment of the switch is on and keep for 3 seconds. You will

see the images with Zoom in effect on the screen.

3. Keep the situation and aim at your target, then press the Shutter Release Button (2-1) completely. The image will be snapped with Zoom in effect.
4. Wait for image processing and saving into CF card till that Camera Busy Item on the B/W Status LCD is off to take next picture.

**< Note > : You can use the Digital Zoom Function when 1.8" Color LCD Monitor is on. Please turn on the LCD before you use this function.**

(4.) Macro Function :



If the target distance is less than 60 cm, you can snap the images in MACRO mode. The focus range of MACRO mode is 20cm.

1. Push the Normal/Macro Control Switch (2-3) to macro position, the 1.8" LCD (1-5) will be lit on automatically and B/W Status LCD (1-7) will display the macro mark.
2. By previewing the image on 1.8" LCD screen, aim at the target with 20cm far apart from camera. Press the Shutter Release Button (2-1) whenever you want.
3. Wait for image processing and saving into CF card till that Camera Busy Item on the B/W Status LCD is off to take next picture.

**<Caution>: To prevent focus error, when you switch the Normal/Macro Control Switch (2-3) to macro position, the 1.8" LCD (1-5) will be lit on. For saving the battery energy, if you finished**

***the macro procedure please push the switch to Normal position.***

(5.) Use the self-timer function:



You can snap the images what included yourself with the Self-timer function of camera.

1. Press the Mode Setting/OK Button (1-10) on the back of camera .The blinking icon on B/W status LCD (1-7) means the item you can change at this time.
2. Press UP (1-11) or Down (1-8) Button to select the self-timer item; then push the Mode Change // LCD on/off Button (1-9) to change the mode to set the self-timer on.

Self-timer function off	Self-timer function on

3. Following the procedure of taking picture, then press the Shutter Release Button. It will create 10 seconds delay after you press the Shutter Release Button.
4. The red self-timer LED located on the front of the camera will blink slowly for 8 seconds and fast for last 2 seconds then take the picture.
5. Wait for image processing and saving into CF card till that Camera Busy Item on the B/W Status LCD off to take next picture.



***<Caution>: To prevent error operating, set the self-timer off whenever you finish the self-timer function.***

(6.) Use the Sequential Snap Function :



You can make sequential images with the Sequential Snap function of camera.

1. Press the Mode Setting/OK Button (1-10) on the back of camera .The blinking icon on B/W status LCD (1-7) means the item you can change at this time.
2. Press UP (1-11) or Down (1-8) Button to select the Sequential Snap item; then press the Mode Change // LCD on/off Button (1-9) to change the mode to set the Sequential Snap on.

Sequential Snap off	Sequential Snap on
	

3. Following the procedure of taking picture, then press the Shutter Release Button. It will create 4 VGA format pictures in 3 sec after you press the Shutter Release Button.
4. Wait for image processing and saving into CF card till that Camera Busy Item on the B/W Status LCD is off to take next picture.

**<Caution>: To prevent error operating, set the Sequential Snap function off whenever you finish the function.**

(7.) Change the Picture Resolution :



You can increase the storage capacity of each memory card by changing Picture Resolution.

1. Press the Mode Setting/OK Button (1-10) on the back of camera .The blinking icon on B/W status LCD (1-7) means the item you can change at this time.
2. Press UP (1-11) or Down (1-8) Button to select the Picture Resolution item; then press the Mode Change // LCD on/off Button (1-9) to select the picture resolution.
3. The picture resolution definition is showed as following:

	F	E
Dimera 150P	1280 X 1024	640 X 480
Dimera 130P	1280 X 960	640 X 480




4. The setting will become effective at next snapping.

**<Note>: To increase the storage capacity of each memory card, set the resolution to economic mode if you don't need the high resolution images.**

## (8.) Change the Flash Light Mode :

You can change the Flash Light Mode to fit the environment situation.

1. Press the Mode Setting/OK Button (1-10) on the back of camera .The blinking icon on B/W status LCD (1-7) means the item you can change at this time.
2. Press UP (1-11) or Down (1-8) Button to select the Flash Light Mode item; then press the Mode Change // LCD on/off Button (1-9) to setup the flash light mode.
3. The Item definition is showed as following:

Auto Flash	Flash On	Flash Off
		

**<Note>:** *1. The flash-light is designed with AUTO “ Red Eye Effect “ reducing.*

*2.To get the best effect, please set the Flash Light Mode to Auto Flash if you don’t know which one is better for your pictures.*



4. The setting will become effective at next snapping.

## (9.) Change the Compression Ratio :



You can increase the image quality of each picture by changing Compression Ratio.

1. Press the Mode Setting/OK Button (1-10) on the back of camera .The blinking icon on B/W status LCD (1-7) means the item you can change at this time.
2. Press UP (1-11) or Down (1-8) Button to select the Compression Ratio item; then press the Mode Change // LCD on/off Button (1-9) to select the picture resolution.
3. The Compression Ratio definition is showed as following:

		
Compression Ratio	No Compression	3.3 X

5. The setting will become effective at next snapping.

**<Note>: To increase the storage capacity of each memory card, set the Compression Ratio to 3.3X if you don't need the high quality images.**

(10.) Change the Exposure Value :



You can control the Exposure Value Manually when you snap pictures with 1.8" LCD on.

1. Switching the Mode Selecting Switch (1-3) to camera mode ( REC side ) on the back of camera.
2. Press the Mode Change // LCD On/Off Button (1-9) to lit on the 1.8" LCD.
3. Aim at the target by live previewing on 1.8" LCD.



4. If you want to increase / decrease the brightness ( Exposure Value ) of images ( to control the Gain of picture ), you can simply push the UP(1-11) or Down (1-8) Button till the images quality ( Exposure Value ) is acceptable .
5. Press the Shutter Release Button ( 2-1) whenever you want.
6. Wait for image processing and saving into CF card till that Camera Busy Item on the B/W Status LCD is off to take next picture.

< Note > : The Exposure Value will come back to Auto Exposure Control at next snapping.

#### (11.) Pictures Playback :

You can operate this camera in Playback Mode (picture playback) by switching the Mode Selecting Switch (1-3) to Playback Mode (right side) on the back of camera. The camera can operate in two functions showed as following :

##### a. Pictures playback :




When you switch the mode to Playback Mode, the screen will be lit on and the last one image you had taken will be showed on the screen. You can simply push the UP (1-11) or Down (1-8) buttons to glance the pictures one by one.

##### b. Pictures Deletion :

If you want to delete the image, you can push the Mode Setting/OK Button (1-10) on the back of camera .The Picture Deleting icon on B/W status LCD (1-7) will be blinking. Push the Mode Change // LCD on/off Button (1-9) Button to change

the deleting mode. There are three deleting mode : deleting last picked picture, deleting All pictures, No deleting. Whenever you finished your selection, push the Mode Setting/OK Button (1-10) again to run the Deletion function.

You also can use the Deleting Function to release the Memory on the card or erase the picture you dislike. The Deletion Function Item definition is showed asfollowing:

Icon	Situation	
	1.8" Color LCD ON	1.8" Color LCD Off
	Deletion Function Off	Deletion Function Off
	Deleting all images in memory card.	Deleting all images in memory card.
	Deleting the current reviewing picture.	Deleting the last picture you had took.

The setting will become effective after you press the Mode Setting/OK Button (1-10).

**< Caution >: To prevent deleting the picture you need, Do the deletion process after you reviewing the picture.**

## E. Software Operating Direction

### ● Software Installation

1. Insert the installation CD into your CD-ROM drive.
2. Follow all on-screen instructions.

*<Note> If on-screen instruction do not appear, Please go to step 3.*

3. Click on the Windows Start button and select Run.
4. In the Run dialog box, type X:\Setup.exe where X is the letter of your CD-ROM drive (e.g. D:\SETUP.EXE) then click OK.
5. Follow all on-screen instruction.

### ● Connecting the Camera to your PC

1. Plug one end of the Cable into RS232 9-pin port or USB port on the back of your computer.

*<Note> : Some systems may require a 9-pin to 25-pin adapter. (not included)*

2. Plug the other end of cable into the digital out port of camera.

*<Caution> : To save the energy of battery, Use the AC adapter when connecting to PC.*

### ● Transferring Images to your PC

1. Make sure Digital Camera is selected, then click “ Acquire “ function for using the TWAIN Driver.

2. The digital camera Take Mode will come up initially. Click the Download Mode button (Circled below).



3. Click the image you want to transfer then click the Download button (Circled below).



10. The screen will display a progress indicator of image transfer. After the image transfer successful confirm window will come out, click OK.
11. For more detailed instructions, please reference help at any time by hitting the F1 key on your keyboard.

## F. DSC Specification :

		<b>Dimera 150 P</b>
<b>1.</b>	<b>Image Sensor</b>	<b>1.5 M Pixel CCD</b>
<b>2.</b>	<b>Image Resolution</b>	<b>Fine 1280 (H) X 1024 (V) Normal 640 (H) X 480 (V)</b>
<b>3.</b>	<b>Color Depth</b>	<b>24 bit</b>
<b>4.</b>	<b>Focal Length</b>	<b>10 mm</b>
<b>5.</b>	<b>Aperture</b>	<b>Mechanical Auto Iris Control</b>
<b>6.</b>	<b>Focus Range</b>	<b>60 cm ~ infinity</b>
<b>7.</b>	<b>Macro Distance</b>	<b>20 cm</b>
<b>8.</b>	<b>Self Timer</b>	<b>10 Sec Delay</b>
<b>9.</b>	<b>LCD Monitor</b>	<b>1.8" Digital Color LCD</b>
<b>10.</b>	<b>Status LCD</b>	<b>B/W Status LCD</b>
<b>11.</b>	<b>Flash Light</b>	<b>AUTO / ON / OFF , 3 mode selectable with Auto " Red-Eye" reducing</b>
<b>12.</b>	<b>Image Compression</b>	<b>Proprietary Method</b>
<b>13.</b>	<b>Storage Media</b>	<b>4 MB Compact Flash Card</b>
<b>14.</b>	<b>Storage Capacity</b>	<b>Fine : 9 ~ 11 pictures (appox.) Normal : 38 pictures (appox.)</b>
<b>15.</b>	<b>Viewfinder</b>	<b>Reversed Galilean Viewfinder 1.8" Digital Color LCD Viewfinder</b>
<b>16.</b>	<b>Power &amp; Batteries</b>	<b>6V DC Inlet // 4 X AA alkaline batteries</b>
<b>17.</b>	<b>Sequential Snap</b>	<b>4 pictures / 3 sec. ( VGA format)</b>








<b>18.</b>	<b>Power Saving</b>	<b>90 sec</b>
<b>19.</b>	<b>Camera to PC I/F</b>	<b>RS-232 C USB</b>
<b>20.</b>	<b>Dimension</b>	<b>64mm * 128mm * 82mm</b>
<b>21.</b>	<b>Weight</b>	<b>300 g ( exclude battery )</b>
<b>22.</b>	<b>EMI Safety</b>	<b>FCC-B, CE, UL+C</b>
<b>23.</b>	<b>Operating Temp.</b>	<b>5° ~ 38°C</b>
<b>24.</b>	<b>Netmeeting Function</b>	<b>Yes</b>


## **G. LED and B/W Status-LCD Item Determination:**

### **a. LED Determination :**

<b>LED</b>	<b>COLOR</b>	<b>DESCRIPTION</b>
Flash LED	Green	Flash LED on -> Flash light ready Flash LED off -> Flash light charging or flash Light off.
Self-timer LED	Red	It creates a 10-seconds delay from the shutter button is pressed. It will blink slowly for 8 seconds and fast for last 2 seconds.

**b. Important Message:**

	Item	Display	Meaning	Description
1	Picture Count		Picture Count [00]~[99]	Show the picture order which have been taken
			Connecting to PC	This icon indicates that camera is connecting to PC. This Mode is detected by Camera automatically.
2	Battery Situation Caution Signal		Battery Full	
			Battery Low	
		BLINKING 	Power insufficient	Batteries are insufficient to run camera and need to be replaced right away.
3	Camera Busy Caution Signal	No busy icon	Camera free	
			Camera Busy	The camera is busy in processing data.
4	Memory Full Error Caution Signal	No memory icon Remain	memory space is enough.	
		Blinking 	memory space remain just for last 3 pictures	

		Memory Icon Display 	Memory full or Memory Card error.	Download the pictures in card, or replace a new memory card.
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c. Power Sources:

	<b>SPECIFICATION</b>	<b>VOLTAGE</b>	<b>CURRENT</b>
Power Adapter	5V-1.5A adapter	5V	1.5A
Battery	AA alkaline batteries X4	6V	0.25A

d. Communication :

<b>ITEM</b>	<b>OS</b>
RS-232	Windows 95, 98, NT 4.0
USB	Windows 95, 98

f. Worldwide Technical Support :

[http:// www.tecoimage.com.tw](http://www.tecoimage.com.tw)