

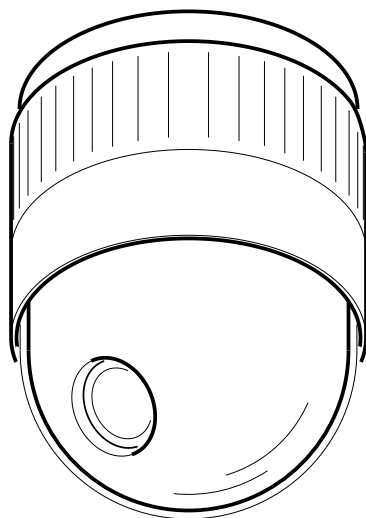


## DOME TYPE CAMERA

---

# TK-C655

## INSTRUCTIONS



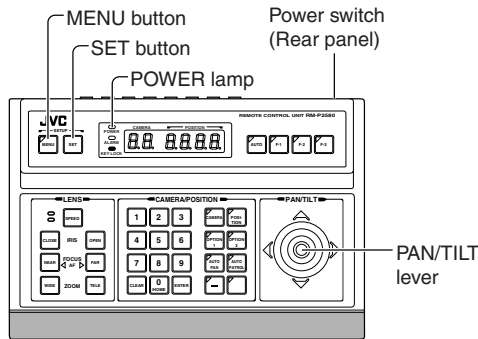
This manual describes only those points that differ from the TK-C655E model (marked with "⇒").

# Setting Up the Camera Using an RM-P2580

## Setup Procedure

In systems using an RM-P2580 remote control unit, the menus for use during camera setup can be displayed on the remote control unit. (Please refer to the instructions for RM-P2580.)

### <Setting the camera menus from an RM-P2580>

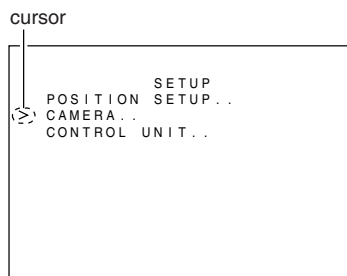


#### 1. Set the Power switch on the rear panel of the RM-P2580 to ON.

The POWER lamp lights up.

#### 2. Press and hold the MENU button for 3 seconds.

- The LED of the MENU button lights up.
- The SETUP menu of the remote control unit is displayed on the monitor connected to MONITOR OUTPUT-1.



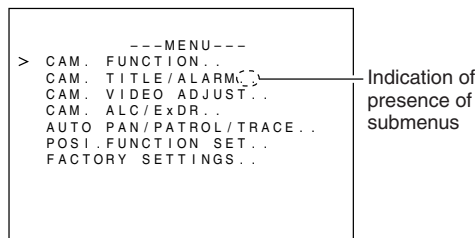
SETUP menu of the remote control unit

#### 3. Move the PAN/TILT lever downwards to move the cursor (>) to "CAMERA" in the menu.

- Tilting the lever upwards (▲) moves the cursor upwards.
- Tilting the lever downwards (▼) moves the cursor downwards.

#### 4. Press the SET button.

- The MENU screen for the camera is displayed.
- Items followed by ".." have further submenus.



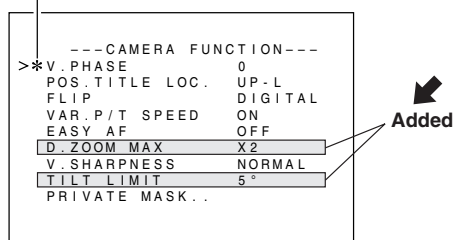
SETUP menu of the camera

#### 5. Tilt the PAN/TILT lever up or down to select an item.

#### 6. Tilt the PAN/TILT lever to the left or right to change the value of the item.

- Tilting the lever towards the left (◀) decreases the value.
- Tilting the lever towards the right (▶) increases the value.

Change mark



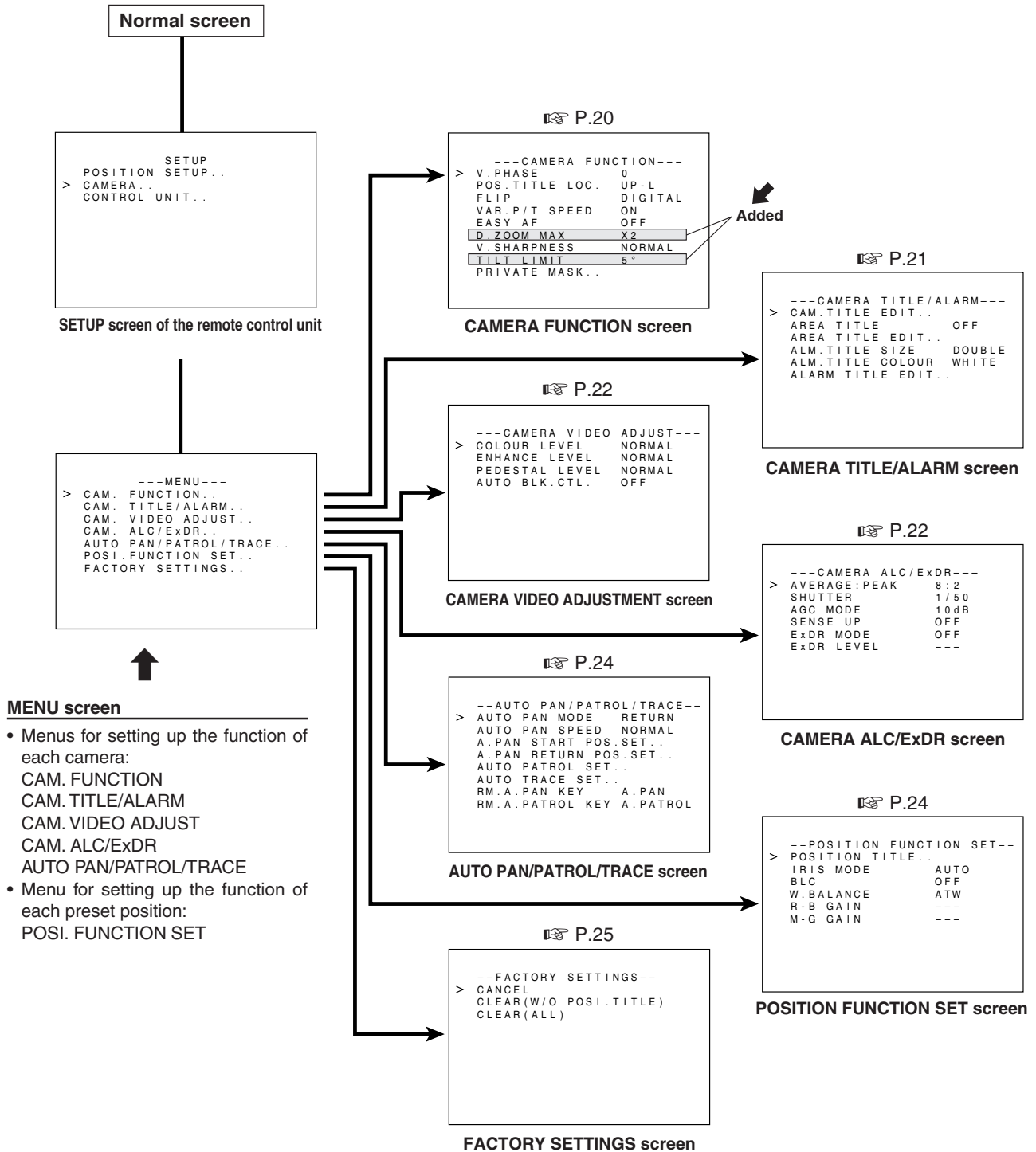
Example of a submenu

#### 7. Press the MENU button.

After completing the setup of the menu items, press the MENU button to return to the previous menu screen.

# Menu Screen Flow

The menu screens are arranged in a hierarchical structure as shown below. Refer to the respective reference pages for the details of each menu.




## Setting Up the Camera Using an RM-P2580

### CAMERA FUNCTION Screen

This screen sets up the functions of the camera itself.

Item	Function & Setting	Initial Value
<b>V. PHASE</b>	This adjusts the vertical synchronization to those of other cameras when a selector switch for the synchronizing system on the Ceiling Mount is at LL. (50 Hz power region only.) <b>Setting values</b> : -156 to 0 to 156	<b>0</b>
<b>POS.TITLE LOC.</b>	Sets the location of the position title and area title in the monitor. <b>UP</b> : At the top of the screen. <b>DOWN</b> : At the bottom of the screen. <b>L</b> : In the left half of the screen. <b>C</b> : In the centre of the screen. <b>R</b> : In the right half of the screen <b>Setting values</b> : UP-L, UP-C, UP-R, DOWN-L, DOWN-C, DOWN-R	<b>UP-L</b>
<b>FLIP</b>	When a tilting operation is started while this item is OFF, the camera will stop at the position where it is pointing straight downwards. When an object moves directly below the camera, the camera makes three movements ① points the straight downwards ② pans 180° ③ points upwards. The FLIP function makes it possible to reduce these operations. Use this function when monitoring an object passing directly below the camera. <b>OFF</b> : Turns the FLIP function off. <b>DIGITAL</b> : Once the camera reaches a tilt of 135° from horizontal after passing a position facing directly downwards, a picture is inverted both vertically and horizontally. <b>AUTO</b> : When the camera reaches a position facing directly downwards, it pans by 180° then stops.	<b>DIGITAL</b>
<b>VAR. P/T SPEED</b>	Under this function, the panning and tilting speeds are adjusted automatically relative to the zoom ratio of the lens. Setting the zoom lens towards TELE decreases the pan and tilting speeds. Setting the zoom lens towards WIDE end increases the pan and tilting speeds. Use this function when monitoring objects at differing zoom ratios. <b>OFF</b> : Turns this function off. <b>ON</b> : Turns this function on.	<b>ON</b>
<b>EASY AF</b>	When this item is set to ON, the auto focusing (AF) is activated automatically during manual pan/tilt and zoom operations. This function is convenient when frequent manual operations are expected as it eliminates the need to focus manually after every manual operation. <b>OFF</b> : Turns this function off. <b>ON</b> : Turns this function on.  — <b>MEMO</b> — Auto focusing may sometimes be incapable of bringing certain objects into accurate focus. (P. 5) In this case, use the manual focusing facility.	<b>OFF</b>
<b>D. ZOOM MAX</b>	When the zoom lens is set toward TELE, optical zooming is activated first and electronic zooming second. This function sets the maximum zoom ratio of the electronic zooming. <b>Setting values</b> : x1, x2, x4, x6, x8, x10.  — <b>MEMO</b> — <ul style="list-style-type: none"> <li>● Note Picture quality deteriorates under electronic zooming as it is accompanied by digital image processing.</li> <li>● An increase in the electronic zooming ratio may deviate the center of the image slightly toward the top left. This is due to the camera properties and is not a malfunction.</li> <li>● Continuous operation from optical zooming to electronic zooming is not available. When optical zooming reaches the TELE end, press the TELE button again.</li> </ul>	<b>x2</b>
<b>V.SHARPNESS</b>	This function sets sharpness in the vertical direction of the image. <b>NORMAL</b> : Normal sharpness. <b>HIGH</b> : High sharpness.  — <b>CAUTION</b> — The following phenomena may be observed when HIGH is selected. This is not a malfunction. <ul style="list-style-type: none"> <li>● Horizontal stripes are observed on bright objects.</li> <li>● Vague horizontal stripes are observed under low light conditions.</li> </ul>	<b>NORMAL</b>

Added

Item	Function & Setting	Initial Value
<b>TILT LIMIT</b>	<p><b>OFF</b> : Tilt angle not limited. Horizontal shooting is also possible.  <b>1°-10°</b> : The camera may be operated manually to be tilted between the vertical position and preset limit at any position between 1° and 10° from the horizontal ceiling.</p> <p>— <b>MEMO</b> —</p> <ul style="list-style-type: none"> <li>● Since the dome cover is of a hemispherical shape, the picture tends to become distorted at the edges of the hemisphere. When the camera is tilted and pointed in the horizontal direction, the picture may be out of focus because the camera captures the edges of the hemisphere. If this phenomenon causes concern, set the "TILT LIMIT" in order to avoid it.</li> <li>● The tilting range, which is set as the TILT LIMIT can be recalled if it has been set as a function of the preset registration or as the Auto Trace setting operation.</li> </ul>	5°
<b>PRIVATE MASK..</b>	<p>This function grays out sections that are not to be displayed in the monitored picture area.  The grayed out section moves accordingly when the camera is panned, tilted or when the zoom is adjusted.   P.26, "PRIVATE MASK Setup"</p>	—




Added

## CAMERA TITLE/ALARM Screen

This screen sets items related to titles and alarms.

\*This unit is not equipped with alarm input/output.

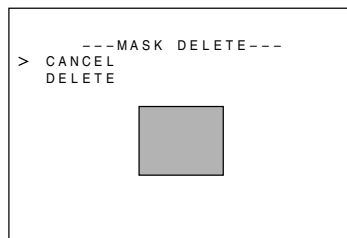
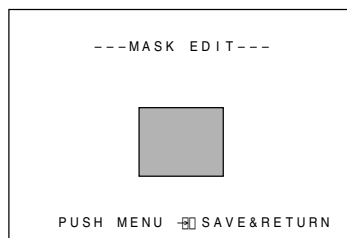
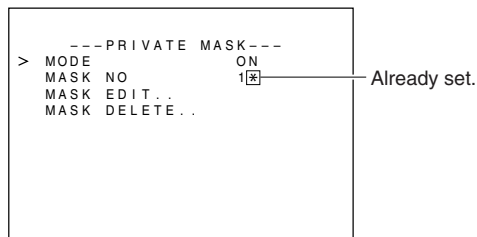
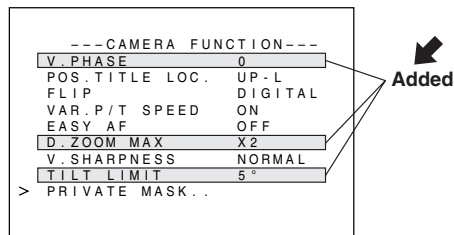
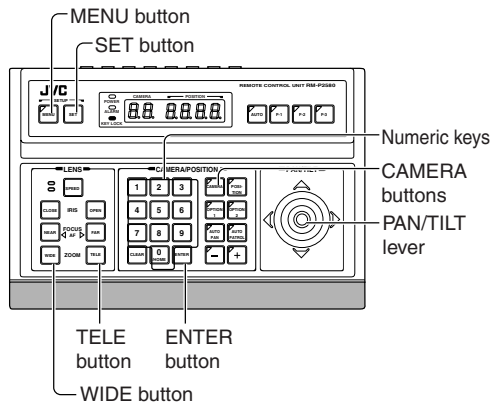
The item ALARM TITLE is used to set the alarm title, which is displayed when an alarm signal is input to the RM-P2580 remote control unit. (Please refer to the instruction manual for the RM-P2580.)

Item	Function & Setting	Initial Value
<b>CAM. TITLE EDIT ..</b>	<p>This sets the title which is displayed permanently at the bottom left of the picture. This title can be up to 16 characters in length.   P. 27, "CAMERA TITLE Setup"</p>	—
<b>AREA TITLE</b>	<p>The 360° panning range can be divided into 16 areas and a title, of up to 16-character in length, can be set for each area. As the camera is panned manually these area titles are displayed. This function determines whether area titles are displayed or not.  <b>ON</b> : Display area titles.  <b>OFF</b> : Do not display area titles.</p>	<b>OFF</b>
<b>AREA TITLE EDIT ..</b>	<p>Sets the area titles.   P. 28, "AREA TITLE Setup"</p>	—
<b>ALM. TITLE SIZE</b>	<p>Sets the size of the characters in the alarm title. (Displayed when an alarm is activated.)  <b>NORMAL</b> : Same size as the characters used in the menu screen.  <b>DOUBLE</b> : Double the size, both horizontally and vertically, of the characters used in the menu screen.</p>	<b>DOUBLE</b>
<b>ALM. TITLE COLOUR</b>	<p>Sets the colour of the alarm titles.  <b>Setting values:</b> WHITE, YELLOW, CYAN, GREEN</p>	<b>WHITE</b>
<b>ALARM TITLE EDIT ..</b>	<p>Sets the alarm titles.   P. 29, "ALARM TITLE Setup"</p>	—

# Setting Up the Camera Using an RM-P2580

## PRIVATE MASK Setup

Use the PRIVATE MASK screen to set up the private mask function, which grays out areas that are not required to be included in the monitored picture. Up to four private masks can be set per screen, and up to eight private masks can be set in total.



**1. Select the camera.** ( RM-P2580 Instruction manual )  
CAMERA button → Numeric key (camera number) → ENTER button.  
The picture of the selected camera is output.

**2. Select the angle of view.**  
Use the PAN/TILT lever and the lens button to set the viewing angle to which the private mask function is to be applied.

**3. Display the SETUP menu on the camera.**  
( P. 18, steps 1 to 4 )  
MENU button (3 sec.) → Select "CAMERA" using the PAN/TILT lever → SET button.  
The camera moves to the home position.

**4. Tilt the PAN/TILT lever up or down to move the cursor (>) to "CAMERA FUNCTION" and press the SET button.**  
The CAMERA FUNCTION menu is displayed.

**5. Move the cursor (>) to "PRIVATE MASK" and press the SET button.**  
The PRIVATE MASK submenu is displayed.

**6. Select the private mask function ON or OFF.**  
Turn the private mask function on or off by setting the "MODE" item in the submenu to ON or OFF (Factory setting: OFF)

**7. Select the mask number.**  
Select the private mask number from MASK NO. 1 to 8 and move the cursor on to the item "MASK EDIT." Of these, a maximum of 4 can be set within one picture.  
If an already set mask number is selected, the (\*) mark will be displayed.

**8. Edit the masking area.**

- Move the cursor to "MASK EDIT" and press the SET button to display the MASK EDIT screen. (The masked area will be displayed as a grayed-out area.)
- Tilt the PAN/TILT lever to move the grayed-out area to the centre of the area to be masked.
- Press the TELE and WIDE buttons to set the masked area size.

### CAUTIONS

- It is not possible to set five or more masks in adjacent areas. (Even when this is attempted, the masked area that is required to be set will not be displayed.)
- MASK cannot be set at lower than approx. 45° in the horizontal direction. (The masks for new settings are not displayed.)

**9. Press the MENU button.**

- The screen returns to the "PRIVATE MASK menu".
- To delete a private masked area, select "MASK DELETE", move the cursor to "DELETE" and press the SET button.  
The PRIVATE MASK menu reappears after the data has been deleted.  
To cancel deletion, select "CANCEL" and press the SET button.

**10. Repeat steps 6 to 9 for each additional masked area.**

**11. Press the MENU button.**  
The screen returns to the "CAMERA FUNCTION" menu.

### CAUTIONS

- There may be cases, depending on the camera direction and zoom position in which an object is captured from within the private mask area. After setting the private mask, be sure to vary the camera direction and zoom position in order to confirm that the camera does not capture objects from within this area.
- The private MASK function cannot be carried out during the initializing process immediately after the power is turned on.
- If the picture being shot contains 5 or more masks, the entire picture is masked.

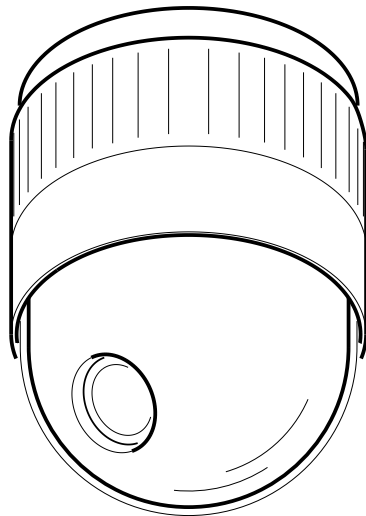
Modified



## DOME TYPE CAMERA

# TK-C676

## INSTRUCTIONS



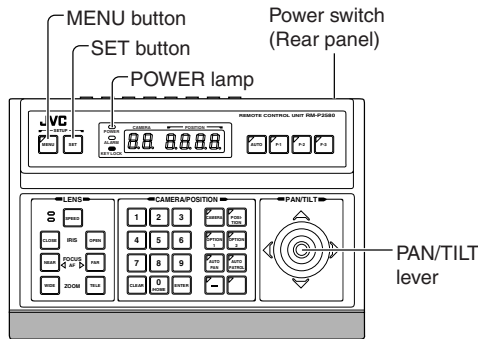
This manual describes only those points that differ from the TK-C676E model (marked with "⇒").

# Setting Up the Camera Using an RM-P2580

## Setup Procedure

In systems using an RM-P2580 remote control unit, the menus for use during camera setup can be displayed on the remote control unit. (Please refer to the instructions for RM-P2580.)

### <Setting the camera menus from an RM-P2580>

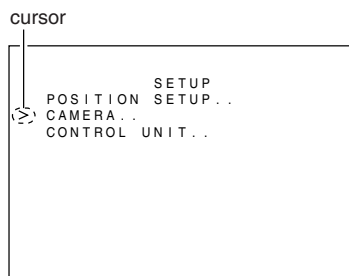


#### 1. Set the Power switch on the rear panel of the RM-P2580 to ON.

The POWER lamp lights up.

#### 2. Press and hold the MENU button for 3 seconds.

- The LED of the MENU button lights up.
- The SETUP menu of the remote control unit is displayed on the monitor connected to MONITOR OUTPUT-1.



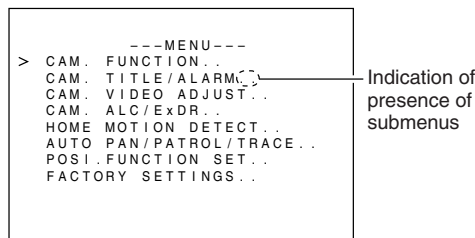
SETUP menu of the remote control unit

#### 3. Move the PAN/TILT lever downward to move the cursor (>) to "CAMERA" in the menu.

- Tilting the lever upward (▲) moves the cursor upward.
- Tilting the lever downward (▼) moves the cursor downward.

#### 4. Press the SET button.

- The MENU screen for the camera is displayed.
- Items followed by ".." have further submenus.

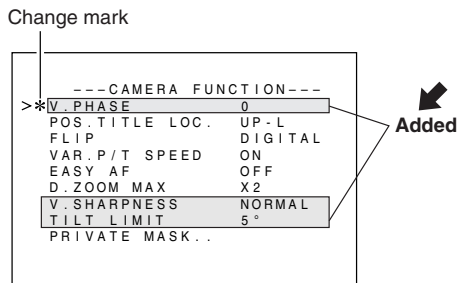


SETUP menu of the camera

#### 5. Tilt the PAN/TILT lever up or down to select an item.

#### 6. Tilt the PAN/TILT lever to the left or right to change the value of the item.

- Tilting the lever toward the left (◀) decreases the value.
- Tilting the lever toward the right (▶) increases the value.



Example of a submenu

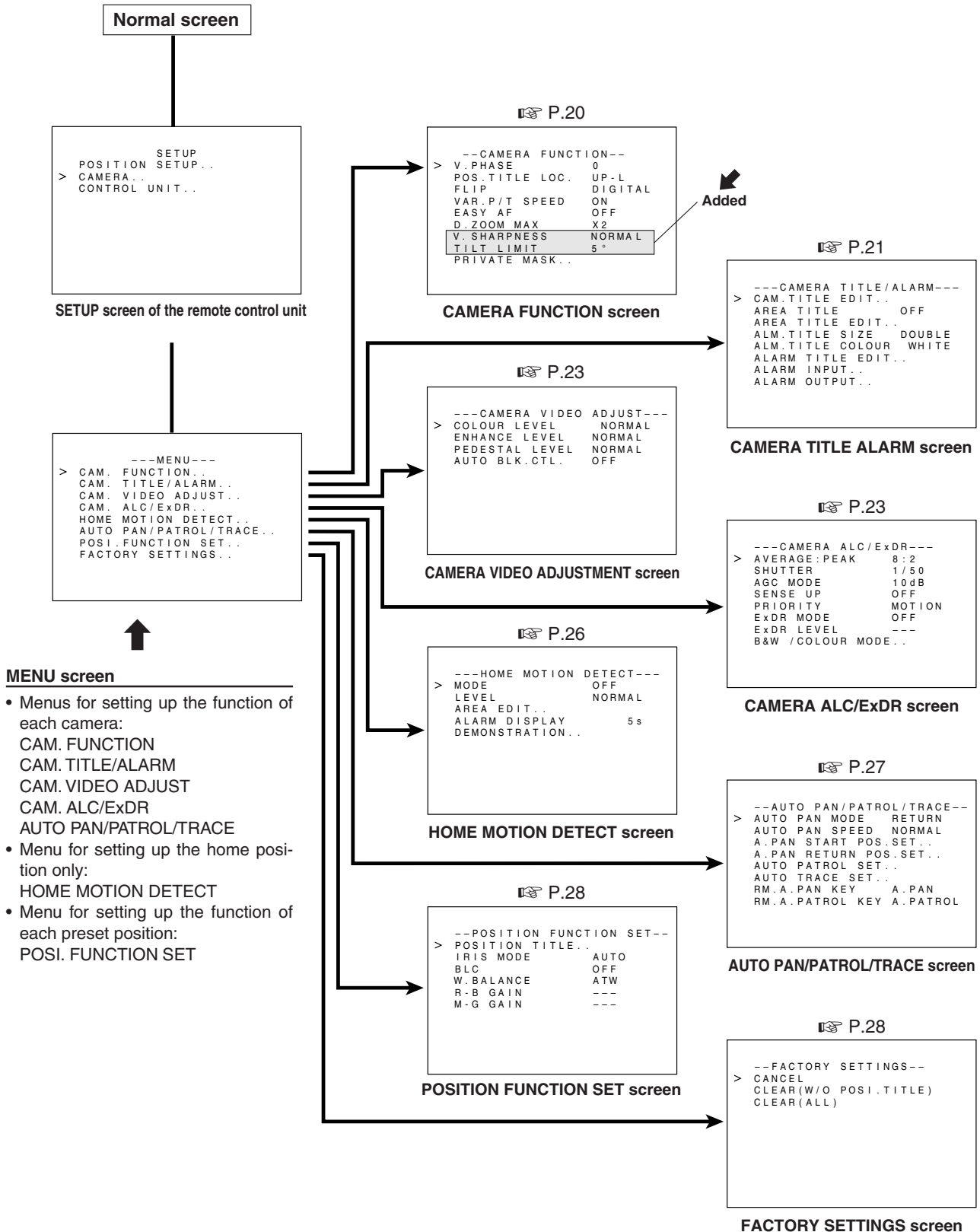
#### 7. Press the MENU button.

After completing the setup of the menu items, press the MENU button to return to the previous menu screen.



# Menu Screen Flow

The menu screens are arranged in a hierarchical structure as shown below. Refer to the respective reference pages for the details of each menu.




# Setting Up the Camera Using an RM-P2580

## CAMERA FUNCTION Screen

This screen sets up the functions of the camera itself.

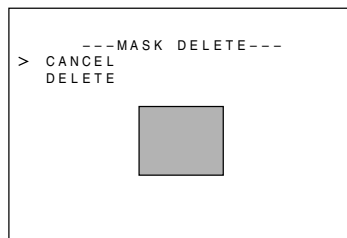
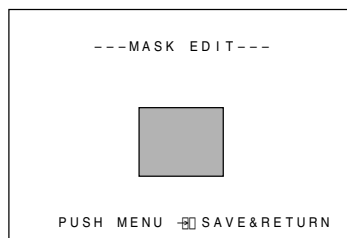
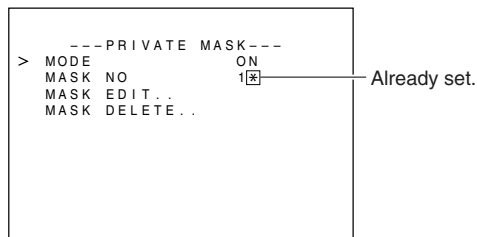
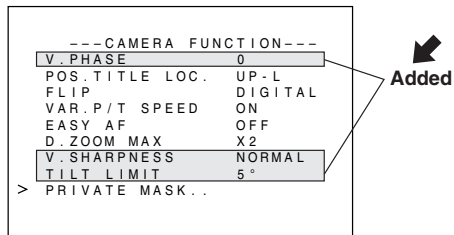
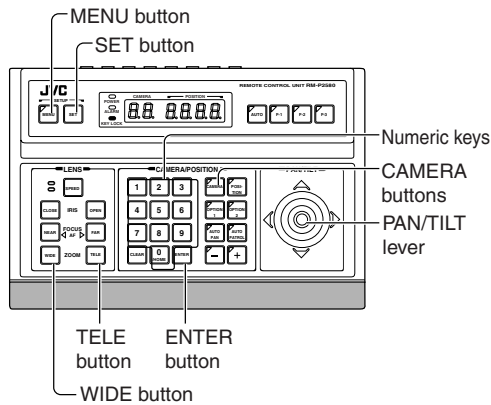
Item	Function & Setting	Initial Value
<b>V. PHASE</b>	This adjusts the vertical synchronization to those of other cameras when a selector switch for the synchronizing system on the Ceiling Mount is at LL. (50 Hz power region only.) When it is not set to LL, "----" will appear, disabling change the set value. <b>Setting values</b> : -156 to 0 to 156	<b>0</b>
<b>POS. TITLE LOC.</b>	Sets the location of the position title and area title in the monitor. <b>UP</b> : At the top of the screen. <b>DOWN</b> : At the bottom of the screen. <b>L</b> : In the left half of the screen. <b>C</b> : In the center of the screen. <b>R</b> : In the right half of the screen <b>Setting values</b> : UP-L, UP-C, UP-R, DOWN-L, DOWN-C, DOWN-R	<b>UP-L</b>
<b>FLIP</b>	When a tilting operation is started while this item is OFF, the camera will stop at the position where it is pointing straight downwards. When an object moves directly below the camera, the camera makes three movements ① points the straight downward ② pans 180° ③ points upwards. The FLIP function makes it possible to reduce these operations. Use this function when monitoring an object passing directly below the camera. <b>OFF</b> : Turns the FLIP function off. <b>DIGITAL</b> : Once the camera reaches a tilt of 135 degrees from horizontal after passing a position facing directly downwards, a picture is inverted both vertically and horizontally. <b>AUTO</b> : When the camera reaches a position facing directly downwards, it pans by 180° then stops.	<b>DIGITAL</b>
<b>VAR. P/T SPEED</b>	Under this function, the panning and tilting speeds are adjusted automatically relative to the zoom ratio of the lens. Setting the zoom lens towards TELE decreases the pan and tilting speeds. Setting the zoom lens towards WIDE end increases the pan and tilting speeds. Use this function when monitoring objects at differing zoom ratios. <b>OFF</b> : Turns this function off. <b>ON</b> : Turns this function on.	<b>ON</b>
<b>EASY AF</b>	When this item is set to ON, the auto focusing (AF) is activated automatically during manual pan/tilt and zoom operations. This function is convenient when frequent manual operations are expected as it eliminates the need to focus manually after every manual operation. <b>OFF</b> : Turns this function off. <b>ON</b> : Turns this function on.  — <b>MEMO</b> — Auto focusing may sometimes be incapable of bringing certain objects into accurate focus. (P. 4) In this case, use the manual focusing facility.	<b>OFF</b>
<b>D. ZOOM MAX</b>	When the zoom lens is set toward TELE, optical zooming is activated first and electronic zooming second. This function sets the maximum zoom ratio of the electronic zooming. <b>Setting values</b> : x1, x2, x4, x6, x8, x10.  — <b>MEMO</b> — <ul style="list-style-type: none"> <li>Note Picture quality deteriorates under electronic zooming as it is accompanied by digital image processing.</li> <li>An increase in the electronic zooming ratio may deviate the center of the image slightly toward the top left. This is due to the camera properties and is not a malfunction.</li> <li>Continuous operation from optical zooming to electronic zooming is not available. When optical zooming reaches the TELE end, press the TELE button again.</li> </ul>	<b>x2</b>
<b>V.SHARPNESS</b>	This function sets sharpness in the vertical direction of the image. <b>NORMAL</b> : Normal sharpness. <b>HIGH</b> : High sharpness.  — <b>CAUTION</b> — The following phenomena may be observed when HIGH is selected. This is not a malfunction. <ul style="list-style-type: none"> <li>Horizontal stripes are observed on bright objects.</li> <li>Vague horizontal stripes are observed under low light conditions.</li> </ul>	<b>NORMAL</b>
<b>TILT LIMIT</b>	<b>OFF</b> : Tilt angle not limited. Horizontal shooting is also possible. <b>1°-10°</b> : The camera may be operated manually to be tilted between the vertical position and preset limit at any position between 1° and 10° from the horizontal ceiling.  — <b>MEMO</b> — <ul style="list-style-type: none"> <li>Since the dome cover is of a hemispherical shape, the picture tends to become distorted at the edges of the hemisphere. When the camera is tilted and pointed in the horizontal direction, the picture may be out of focus because the camera captures the edges of the hemisphere. If this phenomenon causes concern, set the "TILT LIMIT" in order to avoid it.</li> <li>The tilting range, which is set as the TILT LIMIT can be recalled if it has been set as a function of the preset registration or as the Auto Trace setting operation.</li> </ul>	<b>5°</b>

Added

Item	Function & Setting	Initial Value
<b>ExDR LEVEL</b>	<p>This function sets which section of the object is to be displayed in the easiest-to-view brightness level in the ExDR mode.            To make a <b>low-light</b> section of the object easy to view: Increase the level.            To make a <b>highlighted</b> section of the object easy to view: Decrease the level.  <b>Setting values:</b> -5 to NORMAL to 5</p> <p>— <b>MEMO</b> —</p> <ul style="list-style-type: none"> <li>When the difference in brightness between objects is large, the picture may not change even when the ExDR LEVEL is varied. This is due to the characteristics of the camera and is not a malfunction.</li> <li>When the item "SHUTTER" is set to 1/250 or higher, "---" is displayed and the settings to the item "ExDR LEVEL" cannot be carried out.</li> <li>When the item "ExDR MODE" is set to OFF, the settings for the item "ExDR LEVEL" cannot be varied.</li> </ul>	<b>NORMAL</b>
<b>B&amp;W/COLOUR MODE ..</b>	<p>This function sets the color modes to color or B&amp;W.</p> <p>— <b>MEMO</b> —</p> <p>As the camera is sensitive to both visible and near-IR light in the B&amp;W mode, there may be cases in which switching the color mode to the B&amp;W mode causes the image to become out of focus in certain light source conditions. In this case, adjust the focus again in the B&amp;W mode. Also, use an IR illumination as needed.</p>	 <b>Modified</b>
<b>B&amp;W</b>	<p>Switches the mode from color to B&amp;W and vice-versa.</p> <p><b>OFF</b> : Turns the B&amp;W mode switching function off.  <b>ON</b> : Sets the camera permanently to B&amp;W mode.  <b>AUTO</b> : The camera automatically switches to Color mode when the object is bright and to B&amp;W mode when it is dark.</p> <p><b>ALARM IN 1 to 4</b> : The camera switches to B&amp;W mode when there is an alarm input from terminals Alarm 1 to Alarm 4.            The B&amp;W mode is set to ON when the contact is shorted (makes contact) and OFF when the contact is opened (breaks contact).</p> <p>— <b>MEMO</b> —</p> <ul style="list-style-type: none"> <li>To ensure switching between the color and B&amp;W modes:            Setting item "B&amp;W" to AUTO allows the color and B&amp;W modes to be switched according to the brightness of the object. However, this switching may sometimes not occur depending on the lighting condition and viewing angle.            To ensure the switching, it is recommended to connect the signal from an external sensor (to be purchased separately by the user) to one of the ALARM input terminals of the camera and perform switching according to the sensor signal.</li> <li>In order to prevent hunting do not set the item "B&amp;W" to AUTO when using an infrared lamp.</li> </ul>	<b>OFF</b>
<b>LEVEL</b>	<p>When the "B&amp;W" function is set to "AUTO", this function sets the signal level of the object at which the camera will automatically switch to B&amp;W mode.</p> <p><b>LOW</b> : The camera switches to B&amp;W mode when the signal level of the object is low.  <b>NORMAL</b> : The camera switches to B&amp;W mode when the signal level of the object is normal.  <b>HIGH</b> : The camera switches to B&amp;W mode when the signal level of the object is high.</p> <p>— <b>MEMO</b> —</p> <p>When the item "B/W" is set to other than AUTO, "---" is displayed and the settings to the item "LEVEL" cannot be varied.</p>	<b>NORMAL</b>
<b>LIGHT TYPE</b>	<p>Use this function to set the type of light illuminating the object in the B&amp;W mode.</p> <p><b>NORMAL</b> : Setting for normal lighting.  <b>IR</b> : Setting for using IR lighting.</p> <p>— <b>MEMO</b> —</p> <p>If the IR setting is used under ordinary sunlight or fluorescent light, the switching between the color and B&amp;W modes will not be performed correctly.</p>	<b>NORMAL</b>

# PRIVATE MASK Setup

Use the PRIVATE MASK screen to set up the private mask function, which grays out areas that are not required to be included in the monitored picture. Up to four private masks can be set per screen, and up to eight private masks can be set in total.



## 1. Select the camera. ( RM-P2580 Instruction manual)

CAMERA button → Numeric key (camera number) → ENTER button.  
The picture of the selected camera is output.

## 2. Select the angle of view.

Use the PAN/TILT lever and the lens button to set the viewing angle to which the private mask function is to be applied.

## 3. Display the SETUP menu on the camera.

( P. 18, steps 1 to 4 )

MENU button (3 sec.) → Select “CAMERA” using the PAN/TILT lever → SET button.

The camera moves to the home position.

## 4. Tilt the PAN/TILT lever up or down to move the cursor (>) to “CAMERA FUNCTION” and press the SET button.

The CAMERA FUNCTION menu is displayed.

## 5. Move the cursor (>) to “PRIVATE MASK” and press the SET button.

The PRIVATE MASK submenu is displayed.

## 6. Select the private mask function ON or OFF.

Turn the private mask function on or off by setting the “MODE” item in the submenu to ON or OFF (Factory setting: OFF)

## 7. Select the mask number.

Select the private mask number from MASK NO. 1 to 8 and move the cursor on to the item “MASK EDIT.” Of these, a maximum of 4 can be set within one picture.

If an already set mask number is selected, the (\*) mark will be displayed.

## 8. Edit the masking area.

- Move the cursor to “MASK EDIT” and press the SET button to display the MASK EDIT screen. (The masked area will be displayed as a grayed-out area.)
- Tilt the PAN/TILT lever to move the grayed-out area to the center of the area to be masked.
- Press the TELE and WIDE buttons to set the masked area size.

### CAUTIONS

- It is not possible to set five or more masks in adjacent areas. (Even when this is attempted, the masked area that is required to be set will not be displayed.)
- MASK cannot be set at lower than approx. 45° in the horizontal direction. (The masks for new settings are not displayed.)

## 9. Press the MENU button.

- The screen returns to the “PRIVATE MASK menu”.
- To delete a private masked area, select “MASK DELETE”, move the cursor to “DELETE” and press the SET button.  
The PRIVATE MASK menu reappears after the data has been deleted.  
To cancel deletion, select “CANCEL” and press the SET button.

## 10. Repeat steps 6 to 9 for each additional masked area.

## 11. Press the MENU button.

The screen returns to the “CAMERA FUNCTION” menu.

Modified

### CAUTIONS

- There may be cases, depending on the camera direction and zoom position in which an object is captured from within the private mask area. After setting the private mask, be sure to vary the camera direction and zoom position in order to confirm that the camera does not capture objects from within this area.
- The private MASK function cannot be carried out during the initializing process immediately after the power is turned on.
- If a high value is set in item “SENSE UP”, the masked object may be displayed depending on the camera orientation even when the object is located within the private masking area.
- If the picture being shot contains 5 or more masks, the entire picture is masked.