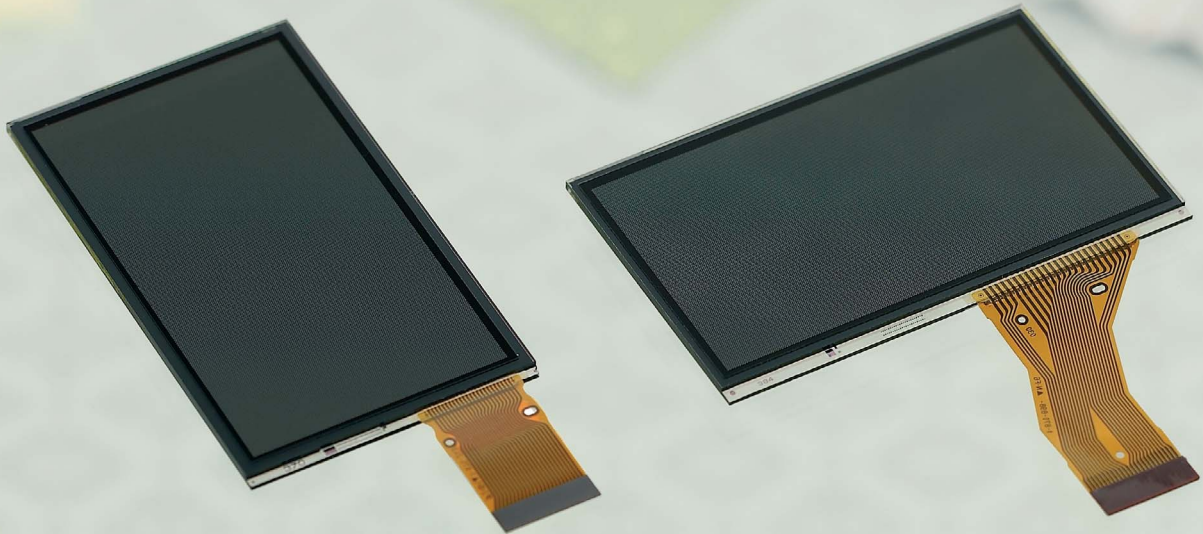


**ACX370AKA**  
**ACX384AKA**

# Transmissive Wide-Screen 2.7-Type Low-Temperature Polycrystalline Silicon TFT LCD Panels for Video Cameras



Sony has now developed two new 2.7-type wide-screen LCD panels, the ACX370AKA and ACX384AKA. These panels feature an optical transmittance improved by 10% over current video camera LCD panels. Both feature a dot count of 123k dots. End product designers can select from two models which position the FPC connector at the right side or at the lower side of the panel to match design requirements.

- The 2.7-type wide LCD panel optimal for video cameras
- Optical transmittance increased by 10% over current models (the industry's highest level)
- Two FPC attachment options: right side and lower side
- Further increases Sony's lineup of video camera LCD panels

## 2.7-Type Wide LCD

The ACX370AKA and ACX384AKA are 2.7-type 16:9 aspect ratio 123k-dot LCD panels. These were developed as follow-on products to the current ACX347AK and feature a significantly improved optical transmittance. These devices flexibly support end products with two FPC connector positions: the right side (ACX370AKA) and the lower side (ACX384AKA).

## Improved Optical Transmittance

Recently, there have been increasing demands for higher brightness in LCD monitors to improve monitor visibility in outdoor use. The ACX370AKA and ACX384AKA adopt the latest low-temperature polycrystalline sil-

icon TFT process technology. In this technology, the area of the LCD pixel internal capacitors (supplementary capacitors) has been reduced to improve the aperture ratio. This results in an optical transmittance increased to 11% from the current 10% optical transmittance of the ACX347AK, achieving the industry's highest level.

## Support for Two FPC Positions

The media used in video camera recording is changing from tape to DVD, hard disk, and IC memory. This means that there are a variety of requirements on the LCD monitor to match the diverse forms of contemporary end products. Although up to now, the FPC connector has always been located at the lower side, the ACX370AKA features a new right side location for this connector. This allows the monitor structure (glass external dimensions) to be made 1.8 mm smaller in the vertical direction. (See figure 1.)

## Expanded Video Camera LCD Lineup

Since many video cameras transmit the signals to the monitor through a hinge, most cameras drive the monitor with an analog interface. Customers who use the CXA3017 external driver IC can configure any of the LCD pan-

els in Sony's extensive lineup (include the ACX370AKA and ACX384AKA of this release) with the same system structure. (See figure 2.)

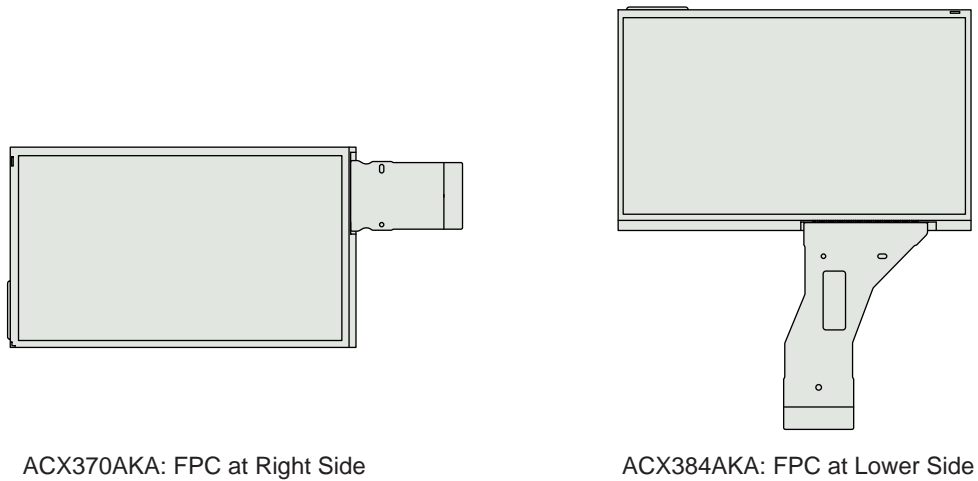
## 16:9/4:3 Display Switching Function

The ACX370AKA and ACX384AKA include the 4:3 display function (black sides) that was appreciated by our customers in the ACX347AK. By combining these panels with the CXA3017 driver IC, the monitor can be switched easily to 4:3 display with a monitor operation when switching to the camera's still image capture function. (See figure 3.)

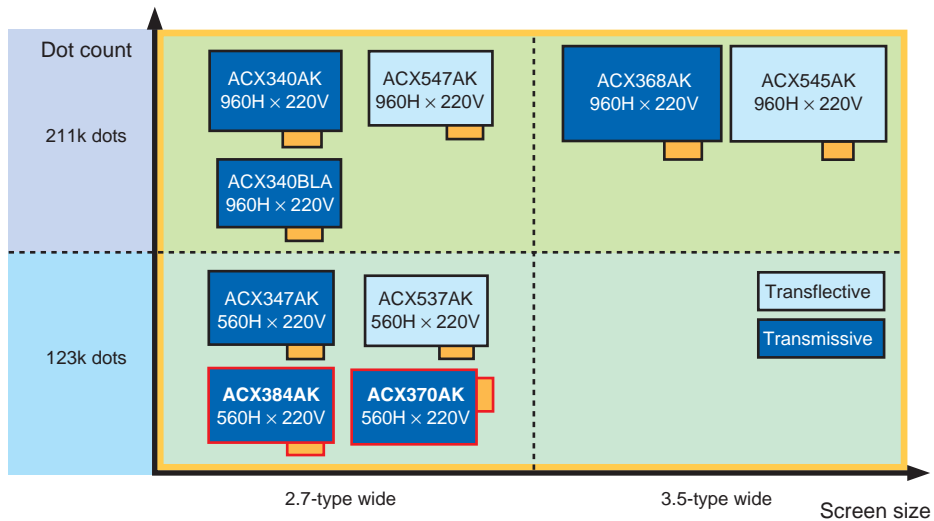
## V O I C E

The ACX370AKA and ACX384AKA are 2.7-type wide-screen LCD panels for video cameras. They feature improved optical transmittance and the addition of a right side FPC position version for improved ease of use. These devices are our first new products with analog interface specifications in two years. Our lineup in this area dates back to 1999 and has now become even more extensive. Thank you for your use of Sony products over the years.

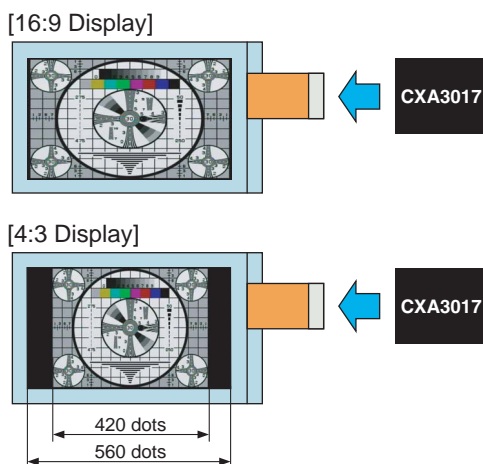
**Figure 1** FPC Connector Positions



**Figure 2** Video Camera LCD Panel Lineup



**Figure 3** 16:9/4:3 Display Switching Function



**Table 1** Main Characteristics

Item	ACX347AKA	ACX370AKA ACX384AKA
Type	Transmissive TN LCD	Transmissive TN LCD
Screen size	2.7-type wide (16:9)	2.7-type wide (16:9)
Number of dots	560 × 220 (display ratio: 90%)	560 × 220 (display ratio: 90%)
Pixel array	RGB delta	RGB delta
Dot pitch	105 × 149.5 μm	105 × 149.5 μm
Effective display area	58.8 × 32.89 mm	58.8 × 32.89 mm
Transmittance	10%	11%
Contrast	300:1	500:1
NTSC ratio	45%	45%
Response time (on + off)	35 ms	35 ms
Package dimensions (Glass external size)	39.39 × 63.0 × 1.76 mm	37.59 × 64.9 × 1.76 mm 39.39 × 63.0 × 1.76 mm