

# Empowering the next generation of camera phones

## CE143 Camera Engine

### CE143 provides Supreme Digital-Still-Camera Performance and Functionalities for Mobile Phones

CE143 is the latest Image Signal Processor (ISP) solution from NEC Electronics with hardware-assisted features enabling high end camera performance within slim phones.

The new product offers mobile phones to output Full-HD video stream and still image data up to 12 Megapixels retrieved by the CMOS sensor. In addition, CE143 also incorporates proven, state-of-the-art image stabilizing and optical compensation technologies that can be found in the high-end DSCs to produce crystal-clear, well-balanced digital photos.

#### **CE143 enables low profile camera modules**

- noise reduction to support latest sensor types (1.4  $\mu$  m)
- lens shading correction for short focal length optics

#### **CE143 enables high performance camera features**

- smooth digital zoom by single-frame super-resolution
- high speed face detection
- image and movie stabilization

#### **12Mpixel capture (smile detection supported)**

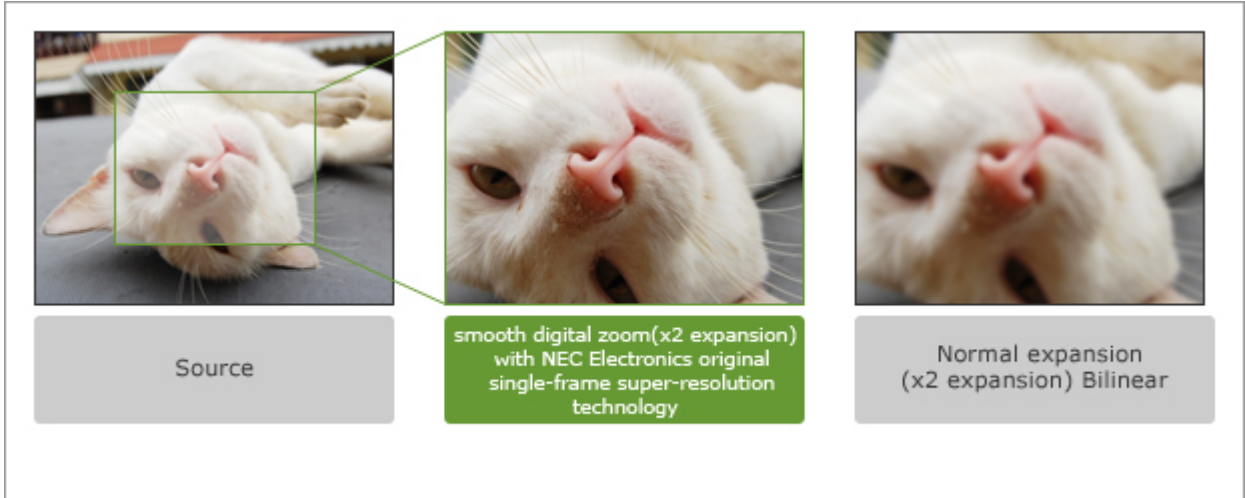
- real time detection of up to 5 faces
- evaluation of your smile rate
- focus and adjust exposure to detected faces

#### **CE143 provides total solution**

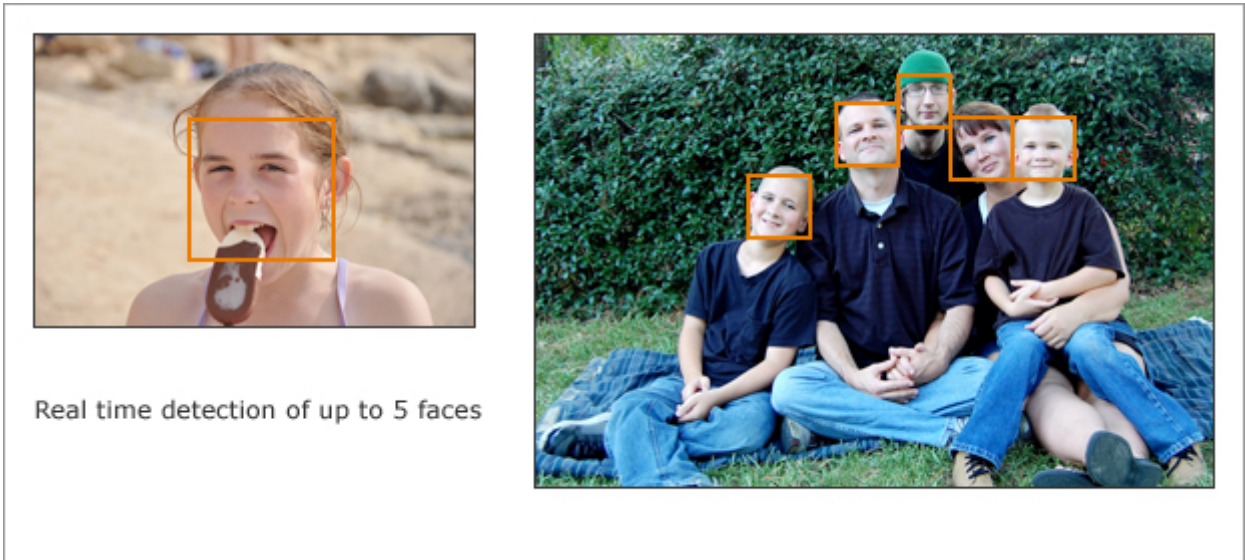
- superior technical support and rich image tuning experience
- backward software compatibility

# CE143 enables high performance camera features

## Smooth digital zoom by single-frame super-resolution



## High Speed Face Detection



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1\*) These samples are not pictures taken by CE143. The actual effect may differ.