

Products Roadmap

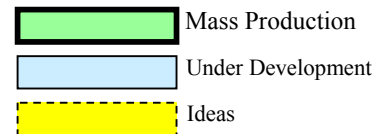
Version 06.4

October 5th, 2006

NEC Electronics (Europe) GmbH.
C-LCD Product Unit

- The actual roadmap sheets show **ONLY** those products the display group has identified as *focus products for promotion*. This list of products does not represent our complete product offerings but is meant to highlight those products to be used in new designs.
- This version has been adapted for customer use and includes: focus products in MP (green boxes), products in development (blue boxes), as well as some products which are in the “idea” phase (yellow boxes). Please note: ***while many of the products in blue and yellow boxes are expected to go into mass production, some may be abandoned before they actually get to mass production, and part numbers may change.***

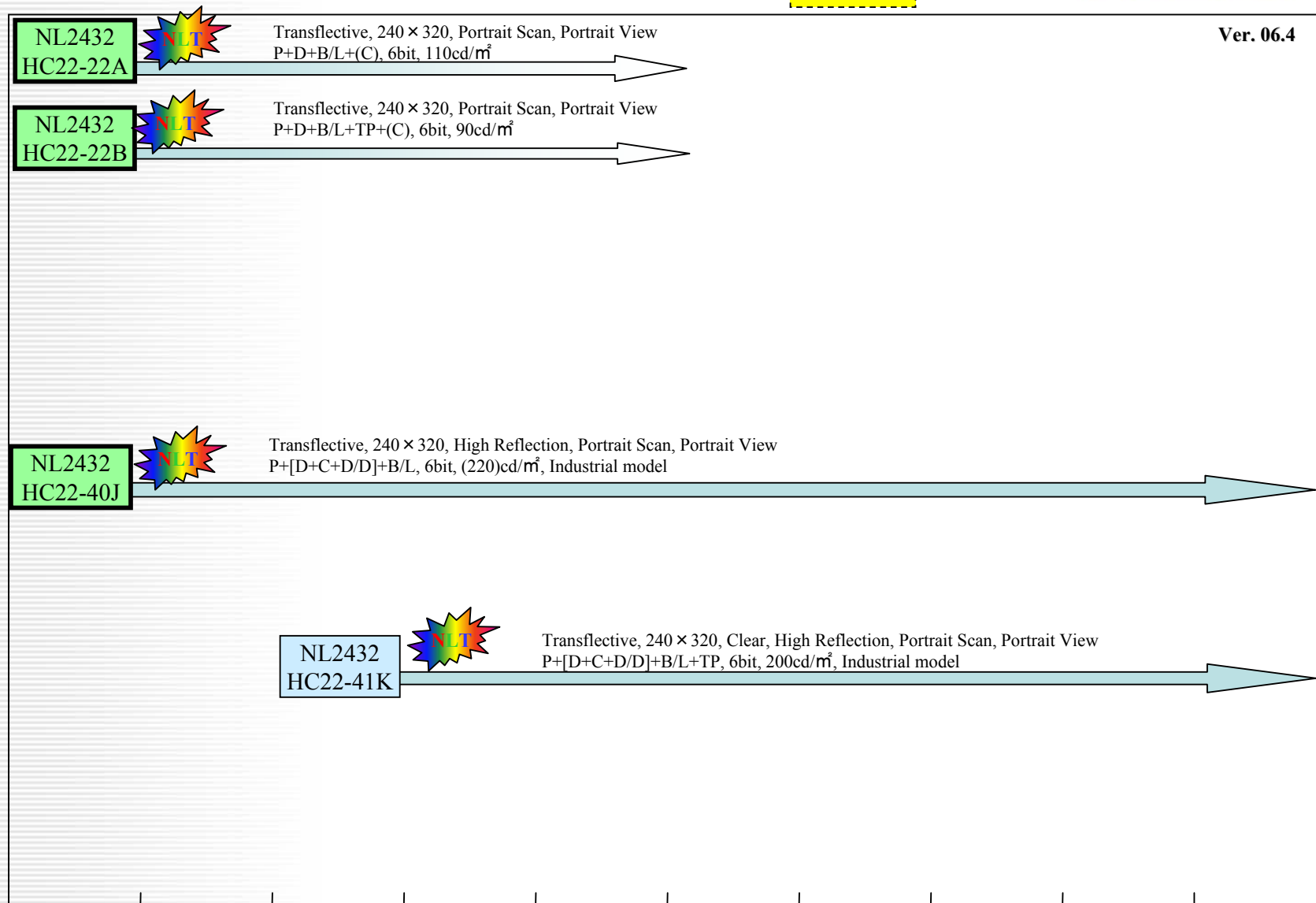
Product Roadmap - 3,5"-






NEC

Ver. 06.4

3.5"
QVGA



Product Roadmap - 5,5"-

 Mass Production
 Under Development
 Ideas

NEC

Ver. 06.4

5.5"
QVGA

**NL3224
AC35-01**

134x110x23mm, 315g, Analog I/F (NTSC/PAL) full color
Luminance : 250cd/m2 CR: 85:1, Response : 60ms, Color Gamut : 50%,
30°/ 15°, 45°/ 45° (U/D, R/L), Operating temp.: -30 to+ 85°C

**NL3224
AC35-06**

134x110x16.5mm, 285g, Analog I/F full color
Luminance : 250cd/m2 CR: 85:1, Response : 60ms, Color Gamut : 50%,
25°/ 25°, 50°/ 50° (U/D, R/L), Operating temp.: -30 to+ 85°C

TN+WV

**NL3224
BC35-20**

134x104.5x12.5mm, 210g, CMOS 6bit 262144color
High Luminance: 400cd/m2 CR :400:1, Response: 30ms
Color Gamut : 50%, 50°/ 40°, 55°/ 55° (U/D, R/L), VGA Mode capable
Operating temp.: -10 to +70°C

TN+WV

**NL3224
BC35-21**

Lamp cable: pull out from rear side
Other item are same as -20



**NL3224
BC35-22**

134x104.5x12.5mm, 215g, CMOS 6bit 262144color, High Luminance: 750cd/m2
CR: 500:1, Response: 30ms, Color Gamut : 50%, 50°/ 40°, 55°/ 55° (U/D, R/L)
Operating temp.: -10 to +70°C

5.7"
VGA
QVGA

**VGA TN+WV
NL6448
BC18-XX**

Luminance : 400cd/m2
Digital 6bit, Operating temp: -20 to +70 °C

**TN+WV
QVGA NL3224
BC36-XX**

Luminance : 400cd/m2
Digital 6bit, Operating temp: -20 to +70 °C

CY'06/3Q

CY'06/4Q

CY'07/1Q

CY'07/2Q

CY'07/3Q

CY'07/4Q

CY'08/1Q

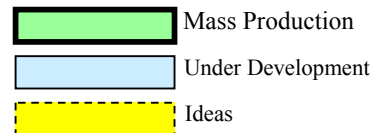
CY'08/2Q

CY'08/2H

NEC ELECTRONICS

New!s

Product Roadmap - 6,3"/6,5" (part 1) -



NEC

Ver. 06.4

Ultra Advanced-SFT Technology

NL10276
BC13-YY

Luminance : 400 cd/m²
Operating temp : -20 to 70 °C

LED B/L

NL10276
BC13-01

Luminance : 400 cd/m²
Operating temp : -20 to 70 °C

LED B/L

NL10276
BC13-01C



153x118x9.0mm, TBDg,
LVDS(6bit+FRC2bit) 16,777,216 / 262144color
600cd/m², CR : 600:1, Response : 25ms, Color Gamut : 40%
80°/60°, 80°/80° (U/D, R/L)
Operating temperature: -20 to 55 °C
Narrow Frame, COG

TN+WV

NL10276
BC12-02

178.8x126.8x12mm , 265g, Ultra Fine Pixel : 202ppi
LVDS(6bit+FRC2bit) 16194277 / 262144color
250cd/m² CR : 500:1
Response : 21ms,
Color Gamut : 40%
45°/60°, 60°/60° (U/D, R/L)
Operating temp. : 0 to 65 °C

CY'06/3Q

CY'06/4Q

CY'07/1Q

CY'07/2Q

CY'07/3Q

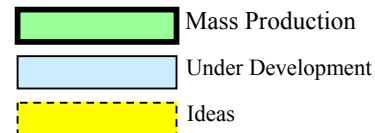
CY'07/4Q

CY'08/1Q

CY'08/2Q

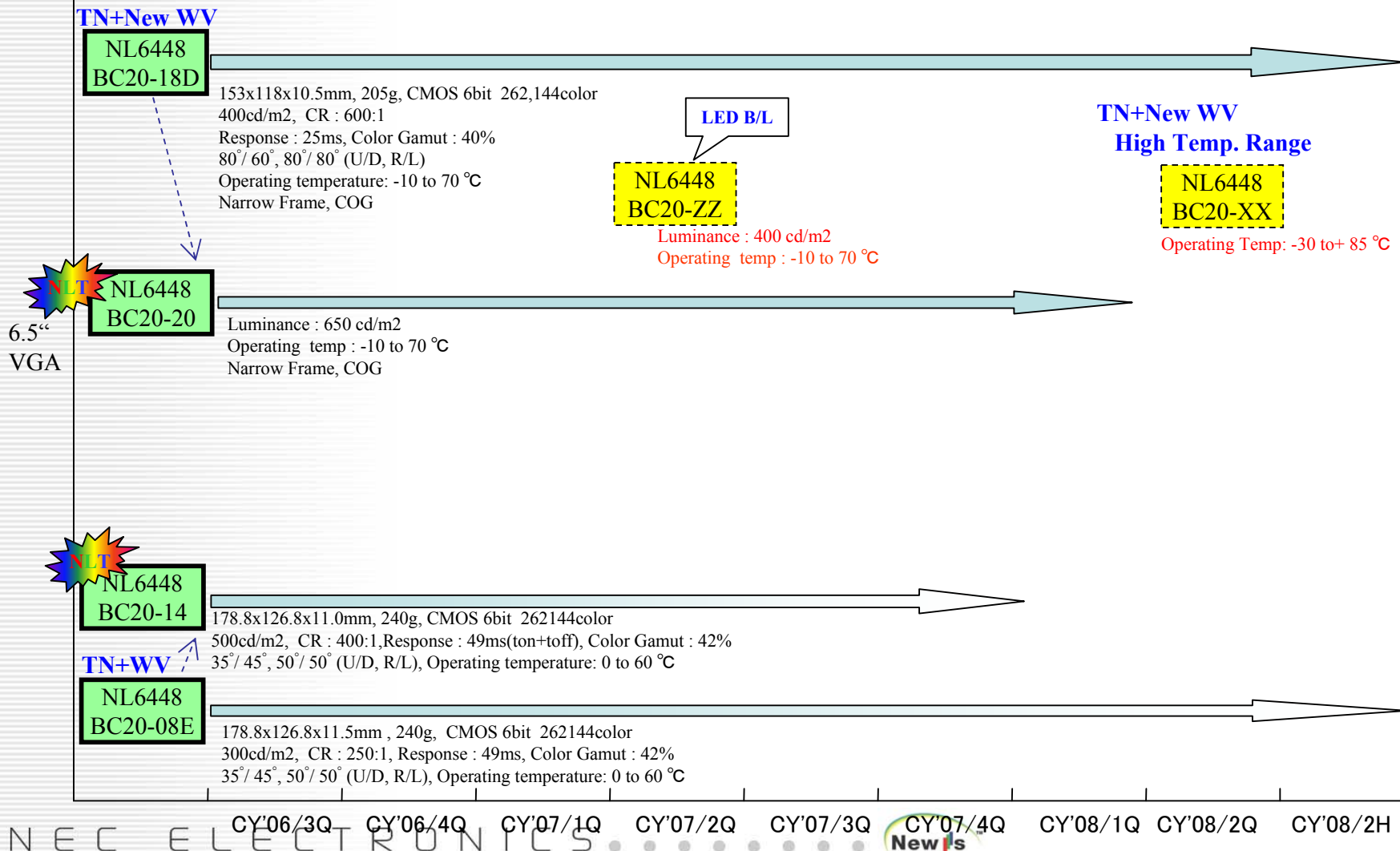
CY'08/2H

Product Roadmap - 6,3"/6,5" (part 2) -

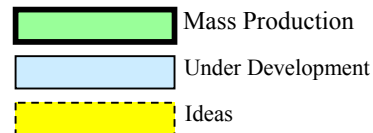


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Product Roadmap - 7"-



NEC

Ver. 06.4

TN+New WV

NL4823
BC37-05

Full Module

CMOS Digital I/F, 480 x 234 Pixel
174.5x105.5x10.5mm, TBDg
High Luminance: 400cd/m2 CR : TBD
Response: 25ms, Color Gamut: 40%
60°/ 80, 80°/ 80° (U/D, R/L)
Operating temp: -20 to 70 °C

TN+New WV

NL8048
BC19-XX

Full Module

LVDS(6bit+FRC2bit) 16,777,216 / 262144color
High Luminance: 400cd/m2
60°/ 80, 80°/ 80° (U/D, R/L)
Operating temp: -20 to 70 °C

7"
W-QVGA

Super Advanced-SFT Technology

NL4823
HC37-03

Driver IC I/F full color

170x104x8mm, 180g
High Luminance: 450cd/m2 CR : 300:1
Response: 65ms, Color Gamut: 40%
85°/ 85°, 85°/ 85°(U/D, R/L)
Operating temp: -10 to 70 °C

CY'06/3Q

CY'06/4Q

CY'07/1Q

CY'07/2Q

CY'07/3Q

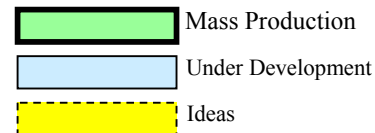
CY'07/4Q

CY'08/1Q

CY'08/2Q

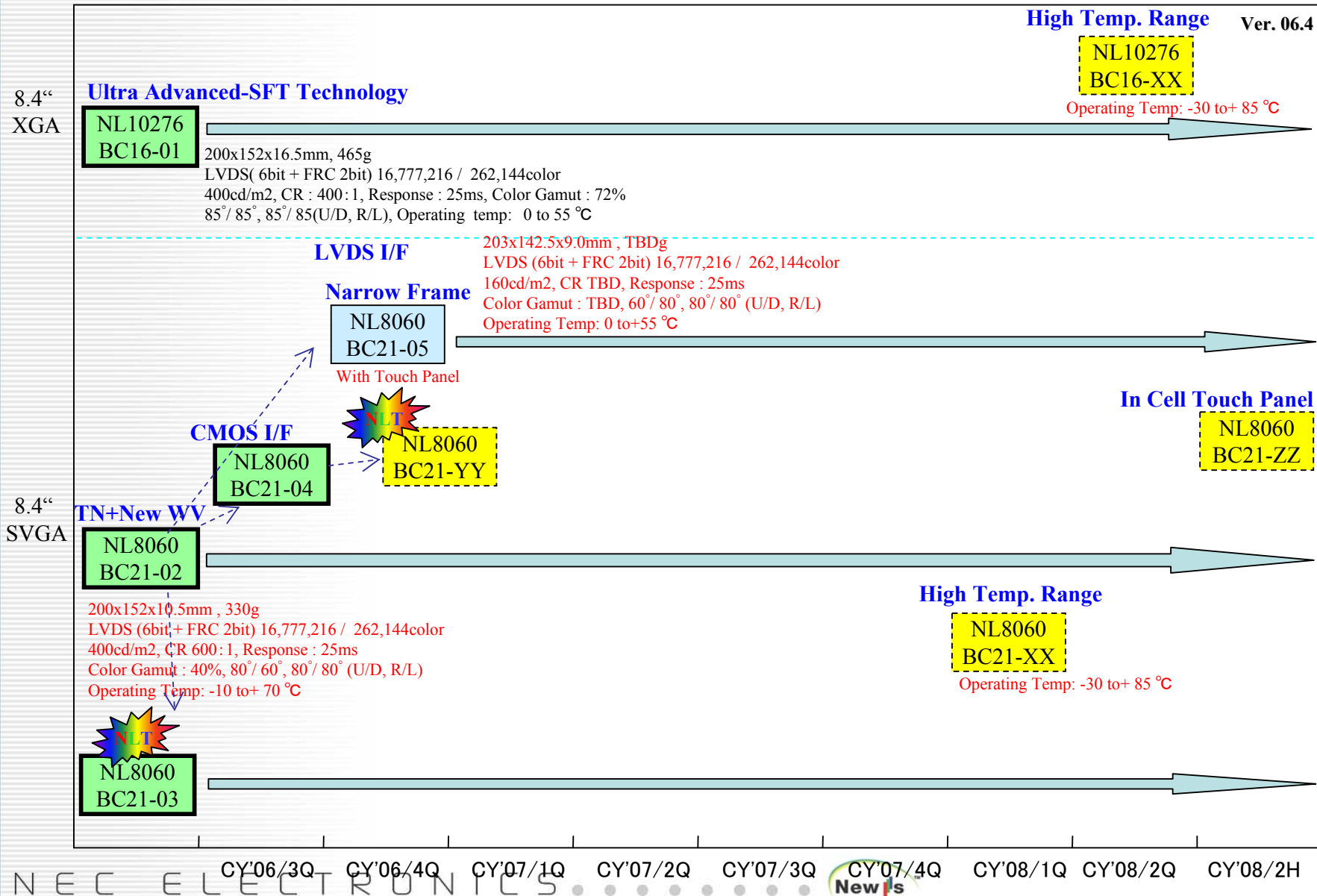
CY'08/2H

Product Roadmap - 8,4" (part 1) -

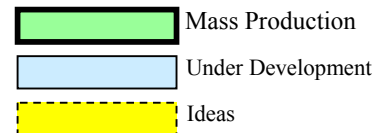


NEC

Ver. 06.4



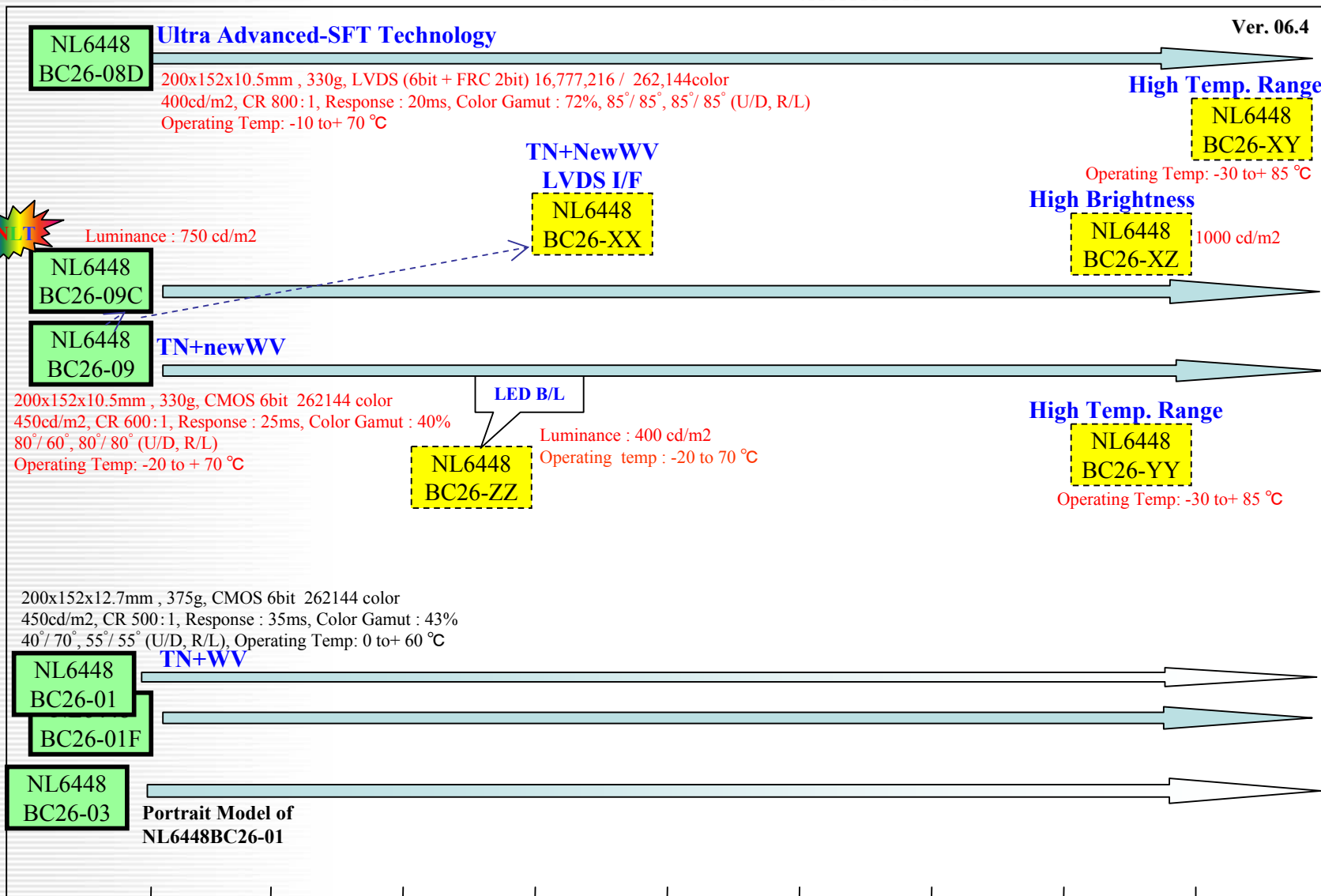
Product Roadmap - 8,4" (part 2) -



NEC

Ver. 06.4

8.4"
VGA



CY'06/3Q

CY'06/4Q

CY'07/1Q

CY'07/2Q

CY'07/3Q

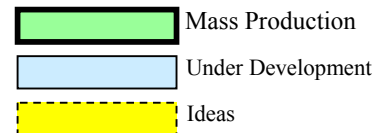
CY'07/4Q

CY'08/1Q

CY'08/2Q

CY'08/2H

Product Roadmap - 10,4" (part 1) -



NEC

Ver. 06.4

10.4"
XGA

TN+WV

**NL10276
BC20-04**

243x185.1x11.5mm, 530g, LVDS 6bit 262144color
300cd/m2 CR 300:1, Response : 55ms, Color Gamut : 40%
45°/ 60°, 60°/ 60(U/D, R/L), Operating Temp.:0 to+ 60 °C



Priority to

NL10276

BC20-04C

Limited Customer

TN+newWV

**NL10276
BC20-XX**

Super Advanced-SFT Technology

Narrow Frame

**NL10276
BC20-08**

227x174.5x10.5mm, 440g
LVDS 6bit 262144color
300cd/m2 CR 700:1
Response : 25ms, Color Gamut : 40%
85°/ 85°, 85°/ 85° (U/D, R/L)
Operating Temp.:0 to+ 55 °C

LVDS I/F

**NL8060
BC26-ZZ**

Luminance : 400 cd/m2
Operating temp : -10 to 70 °C

High Temp. Range

**NL8060
BC26-XZ**

Operating Temp: -30 to+85 °C

Super Advanced-SFT Technology

**NL8060
BC26-27**

243x185.1x10.5mm, 475g, CMOS 6bit 262144color
400cd/m2 CR 700:1, Response : 50ms
Color Gamut : 40%, 85°/ 85°, 85°/ 85° (U/D, R/L)
Operating temperature:-10 to 70 °C

LED B/L

Ultra Advanced-SFT Technology

**NL8060
BC26-YY**

Luminance : 400 cd/m2
Operating temp : -10 to 70 °C

**NL8060
BC26-XX**

Luminance : 400 cd/m2
Operating temp : -10 to 70 °C

10.4"
SVGA

TN+WV

**NL8060
BC26-17**

243x185.1x11.5mm, 520g, CMOS 6bit 262144color
280cd/m2, CR 300:1, Response: 80ms
Color Gamut: 43%, 35°/ 45°, 50°/ 50° (U/D, R/L)
Operating temperature:0 to+ 50 °C

TN+WV

**NL8060
BC26-XY**

Luminance : 400 cd/m2
Operating temp : -20 to 70 °C

**NL8060
BC26-YX**

Luminance : 400 cd/m2
Operating temp : -20 to 70 °C

CY'06/3Q

CY'06/4Q

CY'07/1Q

CY'07/2Q

CY'07/3Q

CY'07/4Q

CY'08/1Q

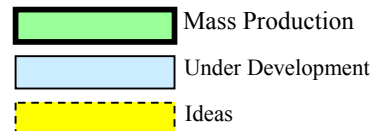
CY'08/2Q

CY'08/2H

NEC ELECTRONICS

New!s

Product Roadmap - 10,4" (part 2) -



NEC

Ver. 06.4

Super Advanced-SFT Technology

NL6448
BC33-53

243x185.1x10.5mm, 475g, CMOS 6bit 262144color
380cd/m2, CR 500:1
Response : 34ms, Color Gamut : 40%
85°/ 85°, 85°/ 85° (U/D, R/L)
Operating temp: -10 to 70 °C

Successor Model

NL6448
BC33-XY

NL6448
BC33-XX

LED B/L

NL6448
BC33-50

243x185.1x11.0mm, 560g, CMOS 6bit 262144color
250cd/m2, CR 100:1, Response : 25ms, Color Gamut : 50%
40°/ 55°, 55°/ 55° (U/D, R/L), Operating temp: 0 to 65 °C

NL6448
CC33-30W

10.4"
VGA

High Bright 1000cd/m2

NL6448
BC33-YZ

NL6448
BC33-YY

LED B/L

High Temp. Range

NL6448
BC33-ZX

Operating Temp: -30 to+ 90 °C

Successor Model

CMOS I/F

NL6448
BC33-64

NL6448
BC33-64C

TN+WV

NL6448
BC33-59

Successor Model

LVDS I/F

NL6448
BC33-63D

243x185.1xTBDmm, 475g, LVDS 8bit/ 6bit
1677216/ 262144 color, 450cd/m2, CR 600:1, Response : 25ms, Color Gamut : 40%
80°/ 60°, 80°/ 80° (U/D, R/L), Operating temp.: -20 to+70°C

NL6448
BC33-63C

Priority to Limited Customer

TN

NL6448
BC33-54

243x185.1x10.5mm, 465g, CMOS 6bit 262144color
220cd/m2 CR 350:1, Response : 38ms, Color Gamut: 40%
30°/ 20°, 45°/ 45° (U/D, R/L), Operating temp: -10 to+ 70 °C

Successor Model

NL6448
BC33-YX

CY'06/3Q

CY'06/4Q

CY'07/1Q

CY'07/2Q

CY'07/3Q

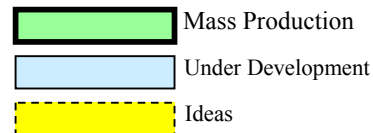
CY'07/4Q

CY'08/1Q

CY'08/2Q

CY'08/2H

Product Roadmap - 12,1" (part 1) -



NEC

Ver. 06.4

12.1"
XGA

TN+VW

NL10276
BC24-13

280x210x13.7mm, 750g., LVDS(6 bit + FRC 2bit), 16,777,216 / 262,144color
400cd/m2, CR 600:1, Response : 33ms, Color Gamut : 40%
45°/55°, 70°/70° (U/D, R/L), Operating temperature:-10 to 70°C



Luminance : 400 cd/m2
Operating temp : -20 to 70 °C

NL10276
BC24-13C

Priority to Limited Customer

Ultra Advanced -SFT Technology

NL10276
BC24-XX

Luminance : 400 cd/m2
Operating temp : -20 to 70 °C

Narrow Frame,
Thin & Light Weight
TN

NL10276
BC24-14

LED B/L

260x200x6.5mm, 285g, LVDS 6 bi, 262,144color
300cd/m2, CR TBD, Response TBD,
Color Gamut : 40%
20°/40°, 45°/45° (U/D, R/L)
Operating temperature:0 to 55°C

Narrow Frame,
Thin & Light Weight
Ultra Advanced -SFT Technology

NL10276
BC24-ZZ

CY'06/3Q

CY'06/4Q

CY'07/1Q

CY'07/2Q

CY'07/3Q

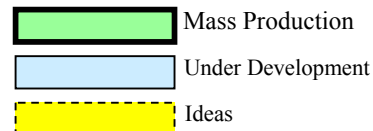
CY'07/4Q
New Is

CY'08/1Q

CY'08/2Q

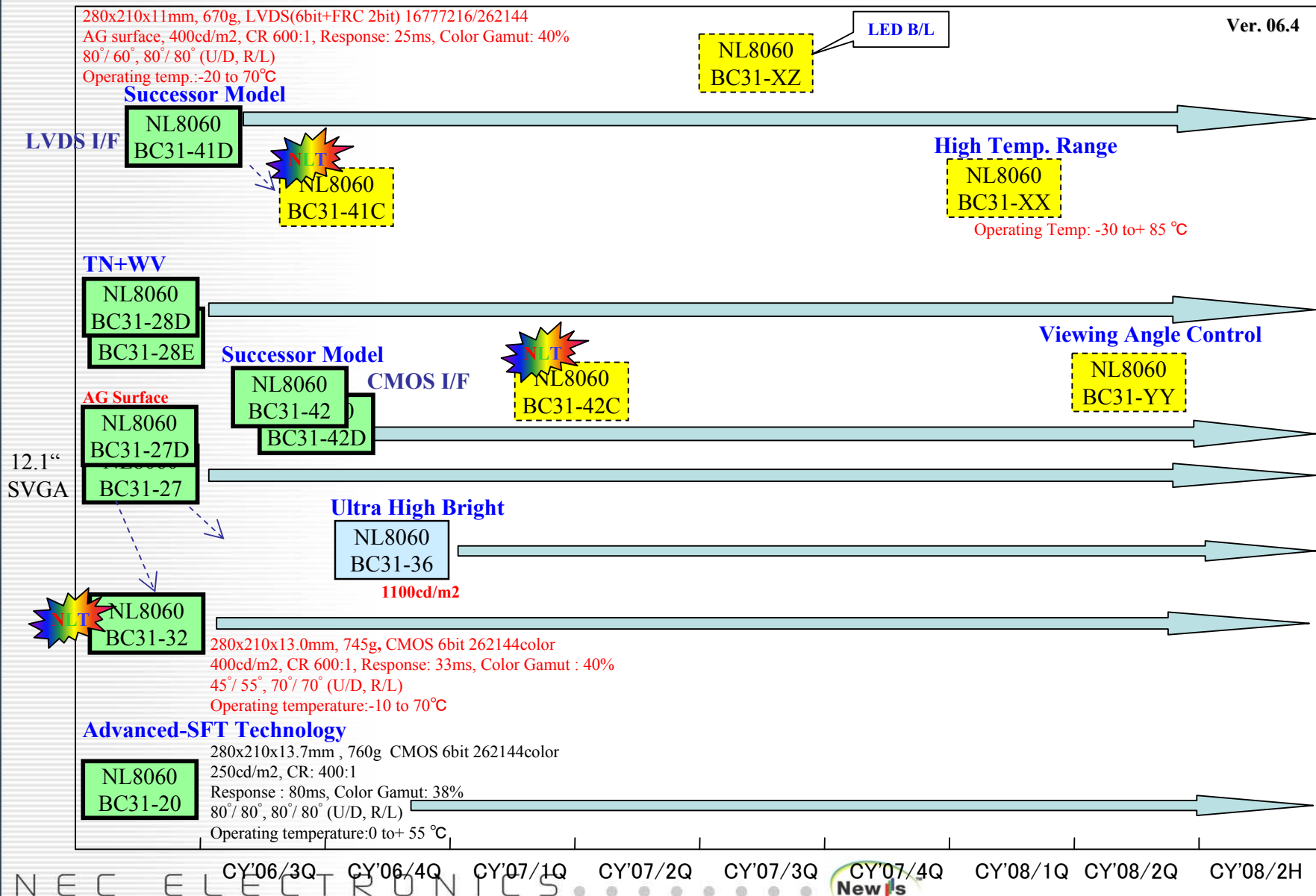
CY'08/2H

Product Roadmap - 12.1" (part 2) -

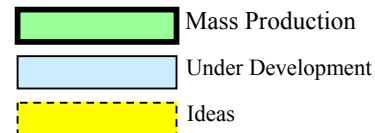


NEC

Ver. 06.4



Product Roadmap - 15,0" -



NEC

Ver. 06.4

Advanced-SFT Technology

NL10276
AC30-07

RF

NL10276
BC30-19

Ultra Advanced-SFT Technology

NL10276
BC30-17

326.5x253.5x17mm, 1300g
Digital (LVDS 6bit+2bit FRC) 16,777,216color
350cd/m2, CR : 700:1
Response time: 25ms, Color Gamut:72%
85°/85°, 85°/85° (U/D, R/L)
Operating Temp: 0 to +55 °C
PSWG compliance

Viewing Angle Control

NL10276
BC30-XX

15"
XGA

TN+ New WV



NL10276
BC30-18C

Luminance:600cd/m2

NL10276
BC30-18

326.5x253.5x17mm, 1300g, Digital (LVDS 6bit+2bit FRC)
Luminance:500cd/m2, Response time : 25ms, Color Gamut:40%
80°/60°, 80°/80° (U/D, R/L), CR 500:1
Operating Temp: -10 /+70 degree, **PSWG compliance**

TN+WV

NL10276
BC30-15

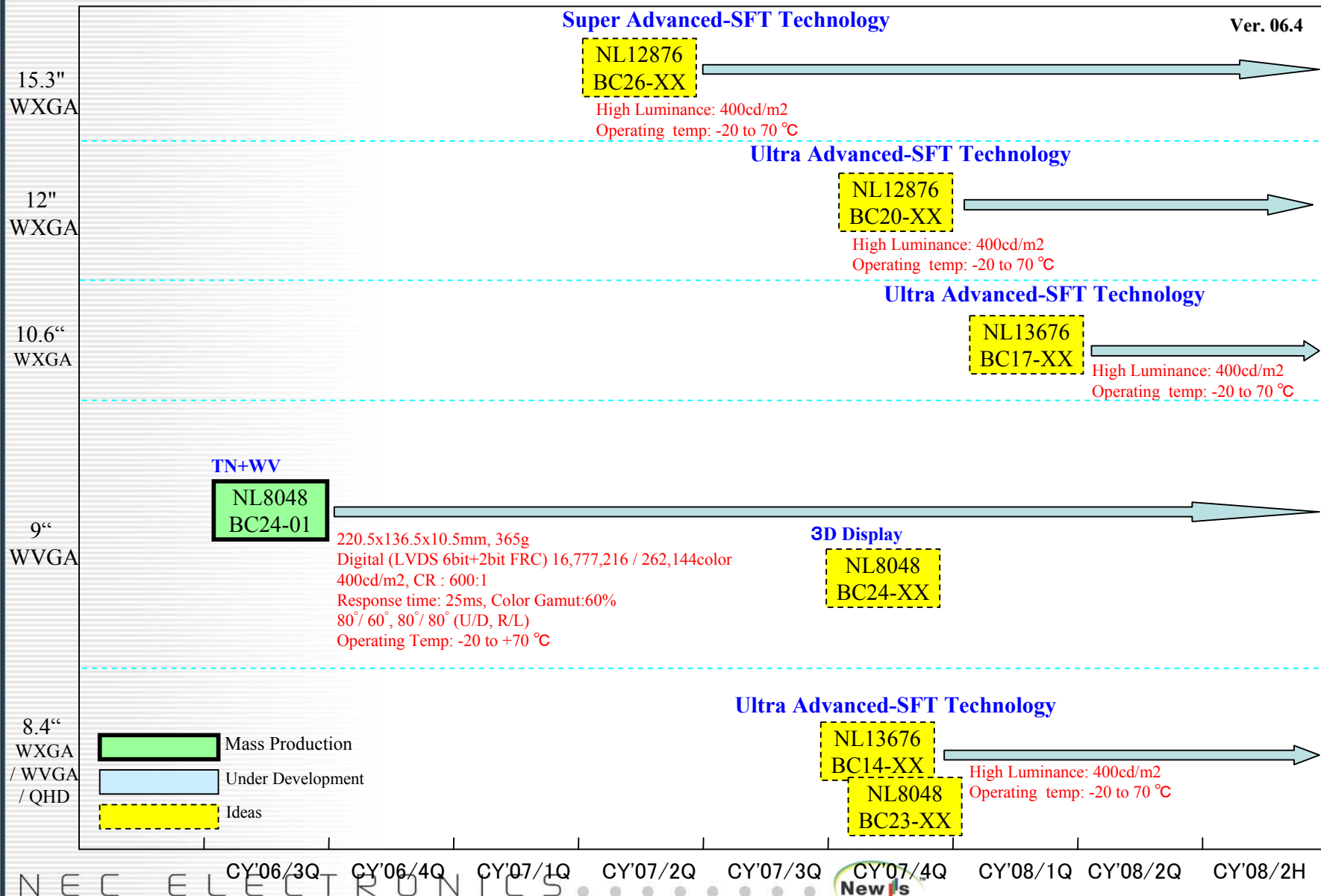
328.0x252.0x11mm, 970g, LVDS 8bit, 16,777,216 color
250cd/m2, CR : 400:1, Response time: 25ms, Color Gamut:60%
45°/60°, 60°/60° (U/D, R/L), T op: 0 / +50 degree

CY'06/3Q CY'06/4Q CY'07/1Q CY'07/2Q CY'07/3Q CY'07/4Q CY'08/1Q CY'08/2Q CY'08/2H

Product Roadmap – 8,4” to 15,0” Wide -

NEC

Ver. 06.4



Product Roadmap - for Monitors, medium screen size - NEC

19"
SXGA

**NL128102
BC29-01**

Super Advanced-SFT Technology

Ver. 06.4

404.2 x 330.0 x 22.0mm,2900g
Digital(LVDS 8bit), 16,777,216 color
300cd/m2, CR 450:1, Response time: 20ms
Color Gamut : 72%, 85°/85°, 85°/85° (U/D,R/L)
Operating temp:0 to 55°C

Ultra Advanced-SFT Technology

**NL128102
AC29-XX**

Long life, Direct Back light

**NL128102
BC29-01B**

Super Advanced-SFT Technology

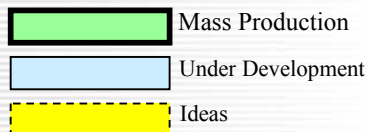
404.2 x 330.0 x 22.0mm,2900g
Digital(LVDS 8bit), 16,777,216 color
280cd/m2, CR 450:1
Response time: 20ms, Color Gamut : 72%
85°/85°, 85°/85° (U/D,R/L)
Operating temp:0 to 55°C

18.1"
SXGA

**NL128102
AC28-07**

Advanced-SFT Technology

389.0 x 317.2 x 30.3 mm, 1650g
Digital(LVDS 8bit), 16,777,216 color
240cd/m2,CR 300:1
Response time: 29ms, Color Gamut : 60%
85°/85°, 85°/85° (U/D,R/L)
Operating temp:0 to 55°C
Direct Back light



CY'06/3Q CY'06/4Q CY'07/1Q CY'07/2Q CY'07/3Q CY'07/4Q CY'08/1Q CY'08/2Q CY'08/2H

Product Roadmap - for Monitors, large screen size (1) - NEC

Ver. 06.4

Super Advanced-SFT Technology

457.0 x 350.0 x 25.0 mm, 3750g, Digital(LVDS 8bit),
16,777,216 color, 250cd/m2, CR 450:1
Response time: 20ms, Color Gamut: 72%
85°/ 85°, 85°/ 85° (U/D, R/L), Operating temp.: 0 to 55°C

NL160120
BC27-02

Ultra Advanced-SFT Technology

Super High Contrast and New RF

NL160120
BC27-ZZ

Super Advanced-SFT Technology

457.0 x 350.0 x 25.0 mm, 3750g, Digital(LVDS 8bit), 16,777,216 color
250cd/m2, CR 550:1, Response time: 20ms, Color Gamut: 72%
85°/ 85°, 85°/ 85° (U/D, R/L), Operating temp.: 0 to 55°C

NL160120
BC27-14

21.3"
UXGA

Super Advanced-SFT Technology

457 x 350 x 34.0 mm, 2610g
Digital(LVDS 8bit), 16,777,216 color, 450cd/m2, CR 450:1
Response time: 16ms, Color Gamut: 72%
85°/ 85°, 85°/ 85° (U/D, R/L), **Direct Back light**

NL160120
AC27-05

Ultra Advanced-SFT Technology

Long life, Super High Contrast, New RF
Direct Back light,

NL160120
AC27-YX

Super Advanced-SFT Technology

LED Back light

NL160120
BC27-10

Advanced-SFT Technology

470 x 382 x 42.5 mm, 2320g
Digital(LVDS 8bit), 16,777,216 color
250cd/m2 CR 300:1
Response time: 53ms, Color Gamut : 60%
85°/ 85°, 85°/ 85° (U/D, R/L)
Operating temp.: 0 to 55°C

NL128102
AC31-02

20.1"
SXGA

CY'06/3Q

CY'06/4Q

CY'07/1Q

CY'07/2Q

CY'07/3Q

CY'07/4Q

CY'08/1Q

CY'08/2Q

CY'08/2H

Product Roadmap - for Monitors, large screen size (2) - NEC

Ver. 06.4

21.3"
QSXGA+

Ultra Advanced-SFT Technology

Digital 10/8bit

NL280210
AC15-XX



21.3"
QXGA

NL204153
BC21-02

Super Advanced-SFT Technology

457.0 x 350.0 x 25.0 mm, 3800g
Digital(LVDS 8bit) 16,777,216 color
235cd/m2, CR 450:1

Response time: 23ms, Color Gamut: 72%
85°/ 85°, 85°/ 85° (U/D, R/L)
Operating temp.: 0 to 55°C

Ultra Advanced-SFT Technology




NL204153
AC21-ZZ

Long life, Super High Contrast, New RF
Direct Back light

Ultra Advanced-SFT Technology

NL204153
BC21-XX

LED Back light

-  Mass Production
-  Under Development
-  Ideas

CY'06/3Q

CY'06/4Q

CY'07/1Q

CY'07/2Q

CY'07/3Q

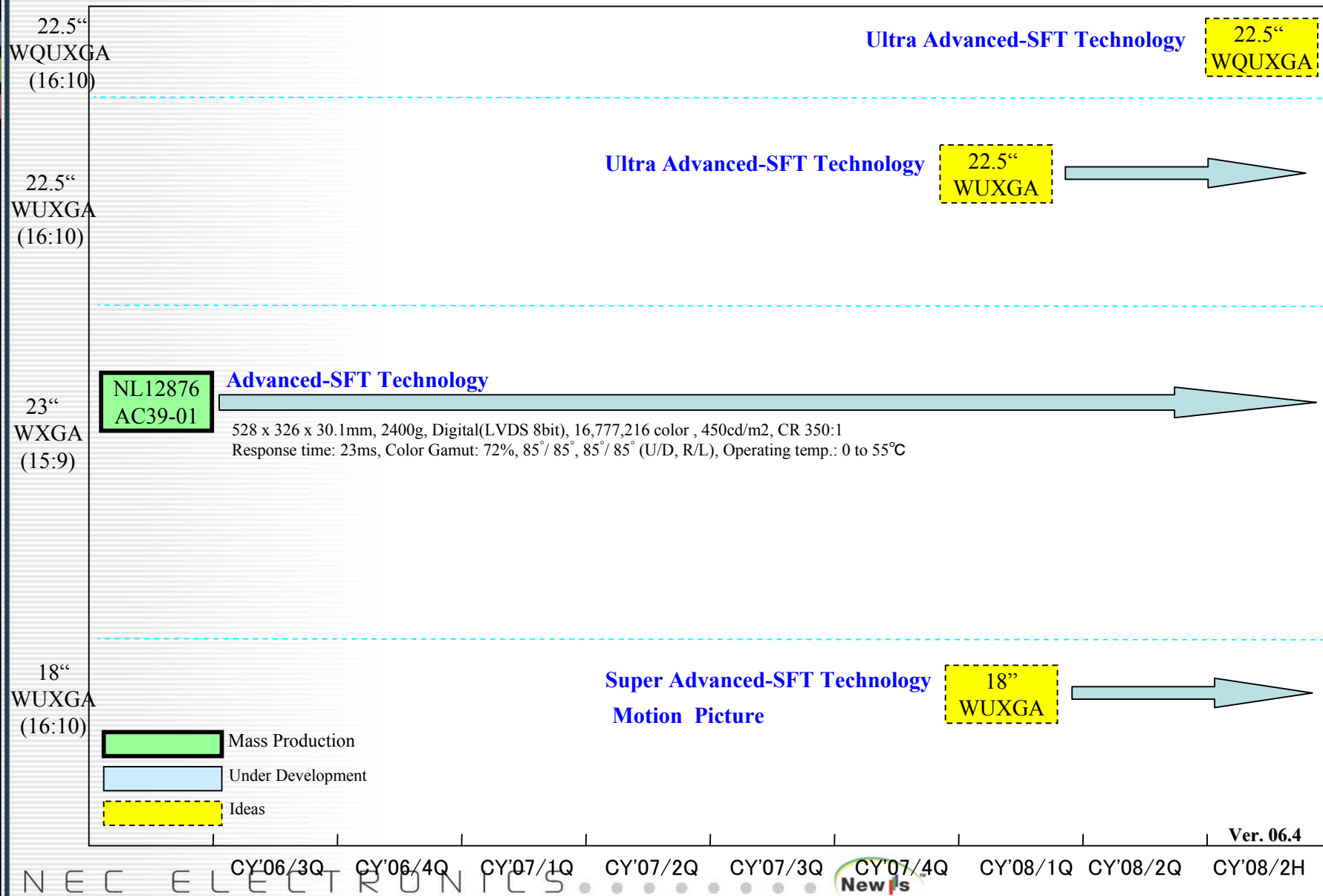
CY'07/4Q

CY'08/1Q

CY'08/2Q

CY'08/2H

Product Roadmap - for Monitors, large screen size (3) - NEC



Product Roadmap - for Monitors, monochrome (1) -



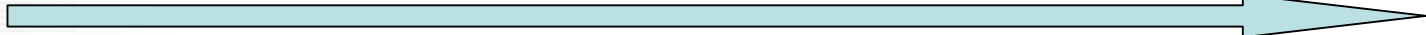
Ver. 06.4

19“
SXGA

Super Advanced-SFT Technology Monochrome LCD Module

NL128102
BM29-05A

404.2x330x22mm, 2900g, LVDS 8bit 256gray scales
1000cd/m2 CR 900:1, Response time: 35ms
85°/ 85°, 85°/ 85° (U/D, R/L), Operating temp.:0 to 55°C
White Balance : P104



Ultra Advanced-SFT Technology Monochrome LCD Module

NL128102
AM29-ZZ

Long life, High contrast, New RF
Direct Back light



Ultra Advanced-SFT Technology Monochrome LCD Module

NL128102
BM29-XX

LED Back light



- Mass Production
- Under Development
- Ideas

CY'06/3Q CY'06/4Q CY'07/1Q CY'07/2Q CY'07/3Q CY'07/4Q CY'08/1Q CY'08/2Q CY'08/2H

Product Roadmap - for Monitors, monochrome (2) -

NEC

Ver. 06.4

21.3"
UXGA

**NL160120
BM27-03/03A**

Super Advanced-SFT Technology Monochrome LCD Module

457.0 x 350.0 x 25.0 mm, 3750g, Digital(LVDS 8bit),
256 gray scales, 1000cd/m2, CR 700:1,
Response time: 35ms, 85°/ 85°, 85°/ 85° (U/D, R/L)
Operating temp: 0 to 55°C, White Balance: P45(-03) / P104(-03A)

**NL160120
BM27-XX**

Ultra Advanced-SFT Technology Monochrome LCD Module

Super High Contrast, New RF, DIN

**NL160120
AM27-06/06A**

457.0 x 350.0 x 34.0 mm, 2610g, Digital(LVDS 8bit), 256 gray scales, 1800cd/m2, CR 700:1, Response time: 30ms,
85°/ 85°, 85°/ 85° (U/D, R/L), Operating temp: 0 to 55°C, **Direct Back light**, White Balance : P45(-06) / P104(-06A)

**NL160120
AM27-13A**

Super Advanced-SFT Technology Monochrome LCD Module

457.0 x 350.0 x 34.0 mm, 2900g, Digital(LVDS 8bit), 256 gray scales, 1800cd/m2, CR 900:1, Response time: 45ms,
85°/ 85°, 85°/ 85° (U/D, R/L), Operating temp: 0 to 55°C, **Direct Back light**, White Balance : 7500K, RF, DIN

Mass Production
Under Development
Ideas

**NL160120
BM27-YY**

Ultra Advanced-SFT Technology Monochrome LCD Module

LED Back light, Long life, New RF

CY'06/3Q CY'06/4Q CY'07/1Q CY'07/2Q CY'07/3Q CY'07/4Q CY'08/1Q CY'08/2Q CY'08/2H

NEC ELECTRONICS

New!s

Product Roadmap - for Monitors, monochrome (3) -

NEC

Ver. 06.4

20.1" QSXGA **Super Advanced-SFT Technology Monochrome LCD Module**
NL256204 AM15-01/01A
 423.4 x 343.5 x 43.5 mm, 2440g
 Digital(LVDS 8bit), 256 gray scales, 850cd/m2, CR 600:1
 Response Time : 30ms, 85°/85°, 85°/85°(U/D, R/L)
 Operating temp: 0 to 55°C
 White Balance: P45(-01) / P104(-01A), Direct Back light




21.3" QSXGA+ **Ultra Advanced-SFT Technology Monochrome LCD Module**
NL280210 AM15-XX
 457.0 x 350.0 x ** mm, 3500g, Digital(LVDS 10/8bit), (1024/256 gray scales), (1000)cd/m2, CR (1000):1, Response time: **ms, 85°/85°, 85°/85°(U/D, R/L),
 Operating temp: 0 to 55°C, White Balance: 7500K, Direct Back light, New RF, DIN

21.3" QXGA **Super Advanced-SFT Technology Monochrome LCD Module**
NL204153 BM21-01/01A
 457.0 x 350.0 x 25.0 mm, 3800g, Digital(LVDS 8bit), 256 gray scales, 800cd/m2, CR 700:1, Response time: 35ms, 85°/85°, 85°/85°(U/D, R/L),
 Operating temp: 0 to 55°C, White Balance: P45(-01)/ P104(-01A)

Ultra Advanced-SFT Technology Monochrome LCD Module
NL204153 BM21-XX
 Super High Contrast, New RF, DIN

Super Advanced-SFT Technology Monochrome LCD Module
NL204153 AM21-07A
 457.0 x 350.0 x 34 mm, 3000g, Digital(LVDS 8bit), 256 gray scales, 1500cd/m2, CR 850:1, Response time: 45ms, 85°/85°, 85°/85°(U/D, R/L),
 Operating temp: 0 to 55°C, **Direct Back light**, White Balance: 7500K, RF, DIN

Ultra Advanced-SFT Technology Monochrome LCD Module
NL204153 BM21-YY
LED Back light, Long life, New RF

 Mass Production
 Under Development
 Ideas

CY'06/3Q CY'06/4Q CY'07/1Q CY'07/2Q CY'07/3Q CY'07/4Q CY'08/1Q CY'08/2Q CY'08/2H

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New!s



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