

HDMI-in feature spec v1.3



20110612 v0.1
20110614 v0.2
20110622 v0.3
20110720 v0.4
20110721 v0.5/v0.6
20110727 v0.7
20110905 v0.8 for Paris
20120112 v0.9 for London
20120116 v1.0 for Paris/London (artwork is not included)
20120323 v1.1 for Paris/London
20130410 v1.2 for London2 (MHL2.0 support)
20130410 v1.3 for London2 (MHL2.0 support)
released by Elton



Source selection button user scenario(PC → Monitor)



PC mode(S0/S1) switch to Monitor mode

Button behavior

if no HDMI-in source (no source is plugged)

HDMI-IN icon is gray which can't be selected

else{

HDMI-IN icon is light blue which can be manually selected

switch to HDMI-in source within **3sec** if manually selected

show PC-mode icon **3sec** to present current source

}

Auto Switch Mechanism

if HDMI-IN source is detected (signal can be detected within **5sec**)

auto switch to **HDMI-in** source

show "**HDMI-IN icon**" **3sec** to present source auto switch OK

else{

show "**HDMI-in no signal**" icon **5sec** with black screen and back to PC mode

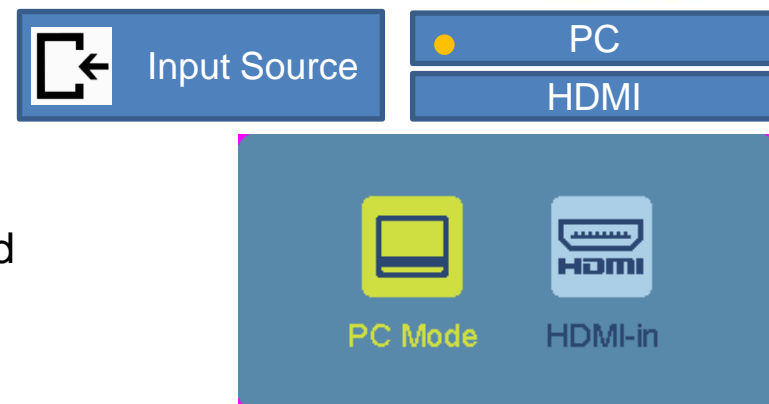
if PC signal is available (S0/S1 state, signal can be detected within **2sec**)

show "**PC mode**" icon **3sec** to present source back to PC

else

show "**PC no signal**" icon in **5sec** then turn off scalar

}



Source selection button user scenario (Monitor → PC)



Monitor mode → PC mode(S0/S1)

Button behavior

if no PC signal (non S0/S1 state)

PC icon is gray which can't be selected

else {

PC mode icon in light blue which can be manually selected

switch to PC source within **3sec** if manually selected

show PC-mode icon **3sec** to present current source

}

Auto Switch Mechanism

if PC source is detected (PC signal can be detected within **2sec**)

auto switch to **PC** source

show "**PC mode icon**" **3sec** to present source auto switch OK

else{

show "**PC mode no signal**" icon **5sec** with black screen and back to Monitor mode

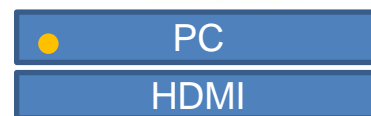
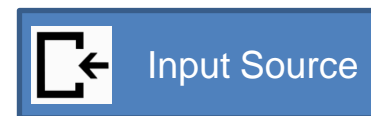
if HDMI-in signal is available (signal can be detected within **5sec**)

show "**HDMI-in**" icon **3sec** to present source back to HDMI-in source

else

show "**HDMI-in no signal**" icon in **5sec** then turn off scalar

}



Scalar Power Plan

low power state: S3/S4/S5/HDMI-in signal is not available

normal power state: S0/HDMI-in signal

ODM should provide real power consumption test result by low power/normal power mode

Icon and duration spec

acer

Auto detection duration

-HDMI-in (detect 5s)

→ if Yes, show HDMI-in icon (pic1-1, 3s)

→ if No, show HDMI-in no signal icon(pic1-2, 5s)

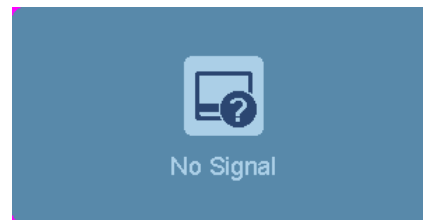
-PC (detect 2s)

→ if Yes, show PC icon (pic2-1, 3s)

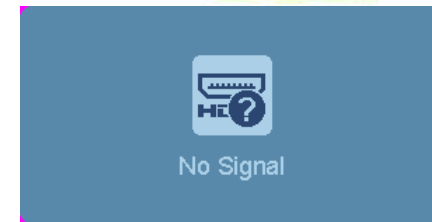
→ if No, show PC no signal icon (pic2-2, 5s)

image for reference only

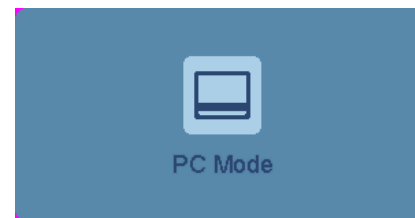
need to use different artwork for different model



pic 2-2



pic 1-2



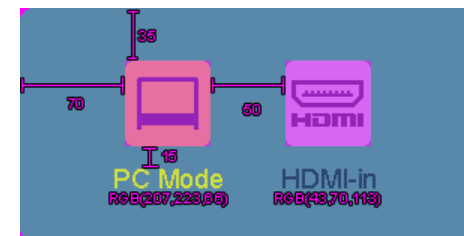
pic 2-1



pic 1-1



icon layout



icon layout

CE product

- Proposed DVD/BD player

Game console

- PS3/XBox360

Acer product

- Notebook (follow Display Lab test criteria)
- Tower PC (follow Display Lab test criteria)

MHL2.0 device (for MHL2.0 supported projects)

- Selected MHL2.0 mobile device
- Test with MHL2.0 cable

user scenario suggested test item



NB scenario (EupLot6 enabled) Condition: NB on / AIO on

1. NB connect to HDMI-in. expect result: auto switch from AIO to NB
2. Press source selection button and switch to PC mode. expect result: switch from NB to AIO
3. Press source selection button and switch to HDMI-in. expect result: switch from AIO to NB
4. NB disable output by “windows+P” button. expect result: auto switch to AIO
5. NB enable output by “windows+P” button. expect result: auto or manual switch to NB
6. NB enter S3/S4. expect result: auto switch to AIO
7. At NB S3/S4/S5 state, press source selection button. expect result: can't switch to NB
8. Resume NB during HDMI-in scenario. expect result: auto switch to NB
design limitation → should plug/unplug NB to apply auto switch; otherwise, manually press HW button instead
9. Unplug HDMI cable from NB site. expect result: auto switch to AIO
10. Press source selection button during no HDMI-in source. expect result: can't switch to NB
11. plug NB again with “windows+P”. expect result: auto or manual switch to NB
12. Unplug HDMI cable from AIO site. expect result: auto switch to AIO
13. Play HDMI-in source and AIO enter S3/S4 in the background, expect result: no impact to HDMI-in
14. Play HDMI-in source and AIO resume from S3/S4, expect result: auto switch to PC mode
15. Play HDMI-in source and listen to audio by ear phone, expect result: can be heard from line-out port
London: not support this feature by design, ear phone can't be functioned in HDMI-in source
16. MHL2.0 mobile connect to HDMI-in. expect result: auto switch from AIO to device
London2 design limitation → mobile can't do auto switch when plug in MHL cable in device side
because HDMI detect pin is not supported in mobile

NB scenario (EupLot6 disable)

Condition: NB on / AIO on

1. Follow EupLot6 enable test items

Condition: NB on / AIO off

1. NB connect to HDMI-in. expect result: auto turn on AIO scalar to display NB source
2. Press source selection button. expect result: can't switch to PC-mode
3. Unplug HDMI-in cable from NB or AIO site. expect result: auto turn off AIO scalar
4. NB connect to HDMI-in, then power on AIO manually. expect result: auto switch to AIO
Power off AIO manually during HDMI-in is plugged. expect result: auto switch to HDMI-in source
5. Play HDMI-in source and listen to audio by ear phone, expect result: ear phone can't be used during S5 state.



HDMI-out feature spec v1.0

20110721 v0.6

20110727 v0.7

20110809 v0.8

20120116 v1.0 for London/Paris

released by Elton



WORLDWIDE PARTNER

Follow MS Windows User scenario

Hotkey: Windows+P

1. Press Windows+P will launch display mode selection dialog as below
 1. PC only, 2. Duplicate Display, 3. Extend Display, 4. Projector only



2. Show different display mode based on different selection by Windows+P
→ AIO resolution setting scenario should follow driver/vBIOS setting, table provided by ODM
3. Both Audio/Video can output through HDMI-out cable
→ audio scenario should follow below priority, scenario table provided by ODM
priority: 1. HDMI-out, 2. Line-out, 3. SPDIF-out, 4. internal speaker
(priority may be discussed and based on vender's suggestion)
4. Unplug HDMI-out cable, expect result: switch to AIO (no matter what mode is)
5. Plug HDMI-out cable in Dos mode, expect result: default is dual display mode
6. Plug HDMI-out cable in Windows mode, expect result: dual or extend mode
7. Display sequence test → put display in the left/right/top/bottom and control panel setting should work properly

2nd LCD Display

- Output to 2nd LCD Display with different mode
- (follow Display Lab test criteria)
- (ODM propose 3 TV model for test, Panel size over 37", focus on PA/EMEA model)

Projector Display

- Output to projector with different mode
- (Acer may propose Acer projector model)