

ELSA WINman (ELSA ȳ'è), ìfwf<fv

ELSA WINman (ELSA ȳ'è), í AELSA fOf%oftfBfbfN f{[fh, ÆELSA Windows fhf %ofCfo, ðf,fjf^, É“K†,³,¹,é,½,ß, ìfvf[]Of%of€, Å, ·[]B

[]Ú,µ,ç,±,Æ,í[]AZÿ, ìfL[]f[]fh, ðfNfŠfbfN, ·, é, ©[]Afwf<fv, ì[]ð^ø, ðfNfŠfbfN, µ, Ä, -,³/₄,³, ç[]B

WINman <N“ @f_fCfAf[]fO

f,fjf^, ìfvf[]pfefB

fOf%oftfBfbfN f,[]fh, ì[]C³[]Afjf%o[][] [“x/‰ð'œ“x/f^fCf~f“fO, ì'²[]@

fOf%oftfBfbfN f,[]fh/f^fCf~f“fO

ELSA WINman (ELSA $\text{Y}'\grave{\text{e}}$)

ELSA WINman (ELSA $\text{Y}'\grave{\text{e}}$), $\text{AELSA fOf}\%_{\text{ftf}}\text{BfbfN f}\{\text{[fh,}\mathcal{A}\text{ ELSA Windows fhf}\%_{\text{fCfo,}}\delta\text{f,ffj}^{\wedge}\text{,}\acute{\text{E}}\text{K}\ddot{\text{z}},^{\text{3}},^{\text{1}},\acute{\text{e}},\frac{1}{2},\beta,\text{lfvf}\text{fOf}\%_{\text{fo}}\text{f}\mathcal{E},\mathcal{A},\cdot\text{B}$
 $\text{[fffBfXfvf}\mathcal{C}\text{fC,lfvf}\text{f}\text{pfefB}]\text{,lf_fCfAf}\text{fO,}\mathcal{a}\text{Sj},\text{c},\mathcal{A},\text{c},\mathcal{E},\text{c},\hat{\text{e}},\hat{\text{I}}\text{A},\pm,\pm,\delta\text{NfS}\text{fbfN},\mu,\mathcal{A},-$
 $,^{\text{3}},^{\text{4}},^{\text{3}},\text{c},\text{B}$

, $\ddot{\text{U}},\frac{1}{2}$ “ $\text{f_fCfAf}\text{fO},\text{I}^{\text{t}},\mathcal{A}[\text{WINman}]\text{f_fCfAf}\text{fO,}\mathcal{a}\text{Sj},\text{c},\mathcal{A},\text{c},\mathcal{E},\text{c},\mathcal{A},\ll,\hat{\text{I}}\text{A}$ ELSA Settings
 $,\text{lf}^{\wedge}\text{fu},\delta\text{NfS}\text{fbfN},\mu,\mathcal{A},,\frac{3}{4},^{\text{3}},\text{c}\text{B}$

$\text{[fXfL}\text{[f}\mathcal{E}]\text{ff}\text{[f}^{\wedge}\text{fZfbfg)}$

$\hat{\text{E}}^{\text{O}},\text{lfOf}\%_{\text{ftf}}\text{BfbfN f,}\text{[fh},\delta\cdot\hat{\text{U}}^{\text{q}},\mu,\mathcal{A},\text{c},\acute{\text{e}}\text{e}\ddot{\text{z}}\text{A},\gg,\text{lf},\text{[fh},\acute{\text{E}}\text{O},\acute{\text{e}}^{\text{O}},\text{I},\acute{\text{e}},\pm$
 $,\mathcal{A},^{\text{a}},\mathcal{A},\ll,\ddot{\text{U}},\cdot\text{B}$

$\text{[f,ffj}^{\wedge}\text{]}$

$\text{Zg-p},\cdot,\acute{\text{e}},\text{ffj}^{\wedge},\delta^{\text{u}}-\text{I},\mu,\ddot{\text{U}},\cdot\text{B}[\text{I}\ddot{\text{X}}\dots],\delta\text{NfS}\text{fbfN},\mu\text{A}^{\text{u}}-\text{I},\mu,\frac{1}{2}\text{I},\delta\text{Sm}^{\text{F}},\mu,\mathcal{A},-$
 $,^{\text{3}},^{\text{4}},^{\text{3}},\text{c}\text{B}$

$\text{A},\text{a},\text{d}-\text{v},\mathcal{E},\text{I},\text{I}\text{Af},\text{ffj}^{\wedge},\text{I}\text{A}^{\text{a}}\text{a}\dots\cdot\frac{1}{2}-\text{Z}\ddot{\text{u}}^{\text{g}}\text{ (kHz)},\mathcal{A},\cdot(\text{f,ffj}^{\wedge}$
 $\text{ff}\text{[f}^{\wedge},\text{I}\mathcal{E}^{\wedge}\text{e}\text{ZQ}\mathcal{A})\text{B}$

$\text{[fjf}\%_{\text{f}}\text{[["x]}$

$256\text{F},\text{C}32768\text{F},\text{C}\cdot\text{K}-\text{v},\mathcal{E}\text{ff}\%_{\text{f}}\text{[["x},\delta^{\text{I}}\delta,\mu,\ddot{\text{U}},\cdot\text{B}\text{U},\mu,\text{c},\pm,\mathcal{A},\text{I}\text{Afj}$
 $\%_{\text{f}}\text{[["x},\delta\text{NfS}\text{fbfN},\mu,\mathcal{A},,\frac{3}{4},^{\text{3}},\text{c}\text{B}$

$\text{[}\%_{\text{f}}\mathcal{A}\text{Z}\text{<}\%_{\text{f}}\delta^{\text{ae}}\text{["x]}/\text{[fo}\text{[f}^{\wedge}\text{fff}\text{<}\%_{\text{f}}\delta^{\text{ae}}\text{["x]}$

$1024 \times 768,\mathcal{E},\text{C}\text{A}\cdot\text{K}-\text{v},\mathcal{E}\%_{\text{f}}\text{ae}-\mathcal{E}\%_{\text{f}}\delta^{\text{ae}}\text{["x},\delta\text{NfS}\text{fbfN},\mu,\ddot{\text{U}},\cdot\text{B}\text{U},\mu,\text{c},\pm,\mathcal{A},\text{I}\text{A}$
 $\%_{\text{f}}\delta^{\text{ae}}\text{["x},\delta\text{NfS}\text{fbfN},\mu,\mathcal{A},,\frac{3}{4},^{\text{3}},\text{c}\text{B}$

$\text{[fSftf}\mathcal{C}\text{fbfVf}\dots\text{f}\mathcal{C}\text{[fg]}$

$75\text{ Hz},\mathcal{E},\text{C}\text{A}\cdot\text{K}-\text{v},\mathcal{E}\text{Sftf}\mathcal{C}\text{fbfVf}\dots\text{f}\mathcal{C}\text{[fg},\delta^{\text{I}}\delta,\mu,\ddot{\text{U}},\cdot\text{B}\text{U},\mu,\text{c},\pm$
 $,\mathcal{A},\text{I}\text{AfSftf}\mathcal{C}\text{fbfVf}\dots\text{f}\mathcal{C}\text{[fg},\delta\text{ZQ}\mathcal{A},\mu,\mathcal{A},,\frac{3}{4},^{\text{3}},\text{c}\text{B}$

$[\text{U}\text{X}\dots],\delta\text{NfS}\text{fbfN},\cdot,\acute{\text{e}},\mathcal{A}\text{A},\text{ae},\text{e}^{\text{3}}\text{Sm},\mathcal{E}^{\text{2}}\text{R},\delta\text{s},\text{x},\pm,\mathcal{A},^{\text{a}},\mathcal{A},\ll,\ddot{\text{U}},\cdot\text{B}$

$\text{[OK]}/\text{[K-p]}$

$\text{fefXfg fpf}^{\wedge}\text{[f}^{\wedge},\mathcal{a}^{\text{A}}\text{e},\mu,\frac{1}{2},\text{c}\text{A},\ddot{\text{U}},\cdot\text{Y}'\grave{\text{e}}\text{a}-$

$\text{e},\delta\cdot\hat{\text{U}}^{\text{q}},\mu\text{AWindows},\delta\mathcal{A}\text{N}^{\text{R}},\mu,\mathcal{A},\text{C},\text{c}\text{AfffBfXfvf}\mathcal{C}\text{fC,lfTfCfY},\mathcal{A}^{\text{E}}\text{u},\text{I}^{\text{2}}\text{R},\delta\text{Zn}$
 $,\beta,\ddot{\text{U}},\cdot\text{B}$

$\text{fffBfXfvf}\mathcal{C}\text{fC,lfTfCfY},\mathcal{A}^{\text{E}}\text{u},\delta\text{f,ffj}^{\wedge},\mathcal{A}^{\text{2}}\text{R},\mu,\mathcal{A},\text{Y},\mathcal{A},,\frac{3}{4},^{\text{3}},\text{c}\text{B},\text{x},\ddot{\text{U}},\cdot\text{c}$

$,\text{C},\mathcal{E},\text{c}\text{e}\ddot{\text{z}},\text{I}\text{AWINman (ELSA } \text{Y}'\grave{\text{e}}\text{)},\mathcal{A}\text{f,ffj}^{\wedge}\text{f}^{\wedge}\text{fCf}\sim\text{f}^{\wedge}\text{fO},\delta^{\text{2}}\text{R},\cdot,\acute{\text{e}},\pm$
 $,\mathcal{A},\text{a},\mathcal{A},\ll,\ddot{\text{U}},\cdot\text{B}$

$\text{[f,ffj}^{\wedge},\text{I}\text{B}\sim\text{]}\text{(f}\text{f}\text{f}\text{f}\text{fXfNfS}\text{[f}^{\wedge},\text{I},\text{Y})}$

$\text{fRf}^{\wedge}\text{fsf}\dots\text{[f}^{\wedge},\mathcal{E}\text{f}\text{f}\text{f}\text{f}\text{fXfNfS}\text{[f}^{\wedge}\text{I}\%_{\text{f}}\text{Z},\text{I}\cdot\text{I}\text{I}],\text{IELSA fOf}\%_{\text{ftf}}\text{BfbfN f}\{\text{[fh,}\mathcal{A}\text{ELSA}$
 $\text{MULTIman Windowsfhf}\%_{\text{fCfo},\mathcal{A},\mathcal{a}\text{fCf}^{\wedge}\text{fXfg}\text{[f}\text{<},^{\text{3}},\acute{\text{e}},\mathcal{A},\text{c},\hat{\text{e}},\hat{\text{I}}\text{A},\pm,\pm$

$,\mathcal{A}\text{f,ffj}^{\wedge},\text{I}\text{B}\sim\text{,}\mathcal{A}^{\text{E}}\text{u},\delta\text{Zw}^{\text{e}},\cdot,\acute{\text{e}},\pm,\mathcal{A},^{\text{a}},\mathcal{A},\ll,\ddot{\text{U}},\cdot\text{B}$

“^ê,lfOf%oftfBfbfN f,[]fh,ÅA“^,¶—e—
Ê,lf[]f,fŠ,đŽ[],Á,½A““™,ìELSAf{[]fh,afCf“fXfg[]f<,³,ê,Ä,ç,ê,îA[]Å—
Ç,ìE<%oÊ,đ“¾,é,±,Æ,ª,Å,«,Ü,·[]B

[fEfBf“fhfE[]\$CEä](f}f<f`fXfNfŠ[][f“,ì,Ý)
f}f<f`fXfNfŠ[][f“,đŽg—p,μ,Ä,ç,Åxf_fCfAf[]fO fEfBf“fhfE,đf,fj^,ì<<ŠE,É•\Ž!,μ,½,-
,É,ç[]ê[][]A,±,ê,đ,đfAfNfefBfu,É,μ,Ä,,¾,³,ç[]B

fefXfg fXfNfŠ[f“

WINman (ELSA[Ý'è),Å,í[A[V,μ,ϕf,fjf^
f^fCf~f“fO,ª•Ů'¶,³,ê,é'O,É[A[V,μ,ϕf^fCf~f“fO,ªf,fjf^,É“K,μ,Ä,ϕ,é,©,Ç,α
,©,ªf`fFfbfN,³,ê,Ü,·B
,» ,ì,½,β,É[A,í, ,©,ÈŽžŠÔ,Å,·,ªfefXfg fXfNfŠ[f“,ª•\Ž|,³,ê,Ü,·B
fefXfg fXfNfŠ[f“,ª•\Ž|,³,ê,Ä,à[AfGfXfP[fv fL[(Esc),ð%oŸ,·,±,Æ,Å,ϕ
,Â,Â,à[A,·,±,Æ,ª,Â,« ,Ü,·B
ŽŸ,É[AfefXfg fpf^ [f“,É-â'è,ª,È,ϕ,©,Ç,α,©[q,È,ç,ê,Ü,·B

fefXfg fpf^ [f“,ª^À'è,μ,½,ç[A,Ü, ,Ý'è“à—
e,ð•Ů'¶,μ[AWindows,ð[Ä<N“® ,μ,Ä,©,ç[AffBfXfvfÇfC,ìfTfCfY,Æ^Ê'u,ì²[®,ðŽn
,β,Ü,·B
fffBfXfvfÇfC,ìfTfCfY,Æ^Ê'u,ðf,fjf^,Å²[®,μ,Ä,Ý,Ä,,¾,³,ϕ[B,α,Ü,,ϕ
,©,É,ϕ[ê[‡,í[A[WINman (ELSA[Ý'è)],Åf,fjf^ f^fCf~f“fO,ð²[®,·,é,±
,Æ,à,Â,« ,Ü,·B

fOf%oftfBfbfN f, [fh(frfflf, [fh) Af, fjj^ f^fCf~f"fo

fOf%oftfBfbfN f, [fh(,Ü,½,Írfflf, [fh), íA, ,éjlf%o[[["x[A%ođ'œ"x[Af, fjj^ f^fCf~f"fo[A,»,'¼,·,×,Ä,ì" ® [if, [fh,ÉŠÖ~A,·,éfefNfjjf< ff [f^,đ<L[q,·,éff [f^ fZfbfg,Å,·B

f, fjj^ f^fCf~f"fo, íA, fjj^ M t, î êžž" ® [i, đ'è<` ,·, éff [f^ fZfbfg, Å, ·B
Šî-{"I,É,ÍfsfNfZf< fNf [fbfN[A...·½'- [, Žü" g" Af f€ [f€, ÍŠtf€fbfVf...
f€ [fg, Å, ·B
[...·½ [, ¼·\Ž; ŽžŠÔ[A'O·"f [f` [A" Šúpf<fX(Sync) [AĚã·"f [f` ,Æ, ç, æ¾—
t, Å, æ, è³Šm, É<L[q,³, ê, Ü, ·B
·\Ž; ŽžŠÔ,Æ, íA" dŽqfr [f€, æ%œ-É, ÉfsfNfZf<, đ·` %œ,·, éžžŠÔ, ì, ±
,Æ, Å, ·B, » ,ìĚã[A" dŽqfr [f€, đÅ%œ, î Ê'u, É-ß,·,É,Í, ,éžžŠÔ, đ—v, μ, Ü, ·B, ±, Ìfuf
%of" fNŽžŠÔ, íA'O·"f [f` (·\
Ž; ŽžŠÔ, [I, í, Á, Ä, ©, ç" Šúpf<fX, [Žn, Ü, é, Ü, Å, ÌžžŠÔ) [A" Šúpf<fX ("Šúpf<fX, Ìž'
±ŠúŠÔ) [A, " ,æ, ŃĚã·"f [f` ("Šúpf<fX, [I, í, Á, Ä, ©, çŽŸ, Ì·\
Ž; ŽžŠÔ, [Žn, Ü, é, Ü, Å, ÌžžŠÔ), Å [[- ,³, ê, Ü, ·B, ±, ê, Í...·½ [, ¼—
¼·û, Ìf^fCf~f"fo, É, Å, ç, Ä" —I, Å, ·B

fbf%o[["x/ bpp

fbf%o[["x, à'è'P^Ê, íbpp, ©A[F, ì"] , Å, ·B
 bpp (Bits Per Pixel), ÍŠefsfNfZf<, ÉŽg—p, Å, «, éfrfffl f[f, fŠ, ì—e—Ê, Å, ·B, ½, Æ, Ì, ÎA8
 bpp, ìêê#AŠefsfNfZf<, Ì8frfbfg, ðŽg—p, µA256 (= 2, Ì8æ)F, ðŠi"["A·\
 Ž!, Å, «, Ü, ·B
 , ±, ì"] , ÍA(%æ—Êã, Ì·\Ž!, É\·ª, ÈsfNfZf<,ª, , éêê#)"—Žž, É·\Ž!, Å, «, éF, ì"] , Ì, ±
 , Æ, Å, ·B

Windows , ìêê#A'ÊíA256F(= 8 bpp),ªŽg—p,ª, è, Ü, ·B256F, ÍA·\
 Ž!, Ì'‰ŽÀ"x, Æf[f, fŠA"i/·\Ž!"—x, Æ, ÍSÖEW, ÅÅ—
 Ç, Ì'Ã<"_ ,¾, ©, ç, Å, ·B[F, Ì"Z,ª, ì""'Ì,ª'á, ç, ÆA'œŽž,ª'á‰º, µA'½, -
 , ìêê#AfffBfUfŠf"fO,ª·K—v, É, È, è, Ü, ·B[F, Ì"Z,ª, ì""'Ì,ª, , ç
 , ÆA[f, fŠ, ÌA"i,ª' , ÌA'Êí, ÍWindows fhf%ofCfo, Ì'—x,ª'x, , È, èA‰ð'œ"x, ð
 ‰º, °, é, ©A"—, ¶‰ð'œ"x, Å, àfŠftfÆfbfVf... fÆ[f, g, ð‰º, °, È, ç, Æ·\Ž!, Å, «, È, -
 , È, è, Ü, ·B
 ^è"Ê"Ì, É, ÌŽÿ, ÌÝ'è, ð, , µ, Ü, ·B
 'Éí, ÌftfBfX fAfvfŠfP[fVf#f" , É, Ì 256F(8 bpp)
 frfffl, Ü, ½, Ì3-DfAfvfŠfP[fVf#f" , É, Ì 32768, Ü, ½, Ì65536F(15, Ü, ½, Ì16 bpp), ÌfŠfAf<ffj
 %o[
 ["x, È‰æ'œ^—, É, Ì 1670—œF(24, Ü, ½, Ì32 bpp), Ìfgf<[ffj%o[

^è"Ê"Ì, Èffj%o[["x

F, ì"]	bpp, Å·\ , Ì, µ, ½ffj %o[["x	fRf[f"fg
-	-	---
2	1	""·A[f, fmfNf
16	4	VGA 640x480, È, Ç, ÌpfÆfbf g
256	8	fpfÆfbfgA^è"Ê"Ì, È , ‰ð'œ"xfOf ‰ftfBfbfN f{[fh, Ì·W€f, [fh
32768	15	fŠfAf<ffj%o[5 + 5 + 5 bpg
65536	16	fŠfAf<ffj%o[5 + 6 + 5 bpg
1670—œ	24, Ü, ½, Ì 32	Äf<[ffj%o[8 + 8 + 8 bpg

4, Ü, ½, Í 8 bpp, ìê#A F, ì", ÌpfCEfbfg (RAM DAC fff% fe[fuf<), đŽg, Á, Ä•\
Ž!, ³, ê, éŽÀÛ, ì F, É•İŠ, ³, ê, Ü, ·B, ±, ÌpfCEfbfg, ÅA262144 F, ÌGf“fgfŠ(6
bpp, ìê#), â1670-œ F, ÌGf“fgfŠ(8 bpp, ìê#), ð%Å"\, Å, ·B

bpp, Æ bpp, đ-“-, μ, È, ç, æ, π, É, μ, Ä, ¾, ³, ç Bbpp, Í ARGB F•â"z, ², Æ, Ìff
% [[["x, đŽ!, μ, Ü, · (bpp = Bits Per Gun) B, ½, Æ, Ì, Î A16 bppfŠfAf< fff% [, ìê# A5
+ 6 + 5 bpp, Í 3 F•â"z, Ì Ô A— Î A Ä, ÉŽg—p, Å, «, éfrfbfg", Å, ·B

fXfNfŠ [f“ fTfCfY A%oÅŽ</fo [f` fff< fXfNfŠ [f“ ,i%ođ‘œ“x

fXfNfŠ [f“ fTfCfY

f, fff^ fTfCfY, l' l, l' %oA <É ü Š Ç (CRT), l' î Š p ü, l' Ć ö [fTfCfY, Å, · B %oÅ Ž < · \ Ž | —
 l' ^ æ, l' î Š p ü fTfCfY, æ, è, à, µ, ' å, «, É, l, Å, · B ^ ê " Ê " l, È, l, l' Ž Ÿ, l' · \, l, Å, " , è, Å, · B

‘îŠpü, l’	‘îŠpü, l’	„, „, æ, »	^ê“Ê“l, È
Ćö [fTf	Ćö [fTf	, l	%ođ‘œ“x
CfY (inch)	CfY (cm)	%oÅŽ<—	
)		l' ^ æ (cm)	
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-	-	-	-
14"	35,5	27 x 20	800 x 600
17"	43	32 x 24	1024 x 768
20"	51	38 x 29	1280 x 1024

u"v, l' fCf" f" A1 inch = 2.54 cm B

%oÅŽ</%ođ‘œ“x

%ođ‘œ“x, Å, l' A · \ Ž |, Å, «, é f s f N f Z f < " , l, ±, Å, Å, · B, 1/2, Å, l, î A 1024 x 768, l' è [f A ... · 1/2, l' Š e s, É 1024 f s f N f Z f < , a · \ Ž |, 3, è A, ' 1/4, l' Š e — ñ, É 768 f s f N f Z f < , a · \ Ž |, 3, è, Ü, · B, µ, 1/2, a, Å, Å %oæ — Ê ã, l' [f s f N f Z f < " , l' 1024 x 768 = 786432, É, È, è, Ü, · B

'Ê [f A 13", Ü, Å, l' f, fff^ , l' %ođ‘œ“x, l' 640 x 480, É [f A 14", ©, ç 15", l' f, fff^ , l' %ođ‘œ“x, l' 800 x 600, É [f A 16", ©, ç 18", l' f, fff^ , l' %ođ‘œ“x, l' 1024 x 768, É [f A 19" ^ Ê ã, l' f, fff^ , l' %ođ‘œ“x, l' 1280 x 1024, É f Z f b f g, 3, è, Ü, · B, 1/2, 3/4, µ A Å, %ođ‘œ“x, l' f h f b f g f s f b f` fTfCfY, â Å ' å ... · 1/2' - [f Ž ü " g " , È, Ç, l' — v ^ ö, É, æ, Å, Å ^ Ü, È, è, Ü, · B

%ođ‘œ“x, l' dpi (Dot Per Inch), Å, à · \ Ž |, Å, «, Ü, · B

fo [f` fff<%ođ‘œ“x (fXfNfŠ [f“ , l' p f “)

fo [f` fff< fXfNfŠ [f“ , a f A f N f e f B f u, É, È, Å, Ä, ç, é, Å [f A Windows, l' [f A — l' ^ æ, l' · \ Ž |, 3, è, Å, ç, é %oÅ Ž < fXfNfŠ [f“ , æ, è, à ' å, «, , È, è, Ü, · (, Å, Ü, è [f A fo [f` fff<%ođ‘œ“x, l' %oÅ Ž < %ođ‘œ“x, æ, è, à ' å, «, , È, é) [f B %oB, è, 1/2 — l' ^ æ, l' [f A f } f e f X f j [f f < , a f X f N f Š [f“ , l' < « Š E, É — ^ , é, Å Ć © , l' , é, æ, x , É, È, è, Ü, · B, » , l' Ć ã %oÅ Ž < fXfNfŠ [f“ , l' " à — e, a f X f N f [f < , 3, è, Ü, · B, ± , l' " ® [f , ð, Å [f u f p f " [f v, Å, à Ć 3/4, ç, Ü, · B

fsfNfZf< fNf[]bfN/MHz

fsfNfZf< fNf[]bfN, Ü, 1/2, ÍsfNfZf< fCE[]fg, íMHz(f[]fKfwf<fc), Å•\, í, ³, ê, Ü, ·[]B, ±, ì'ì, ì"í^í, í'Ê[]í10, ©, ç250 MHz, Å, ·[]B, 1/2, Æ, ì, î[]A75 Hz, Å, ì%øđ'œ"x 1024 x 768, É, í[]A79 MHz, ìsfNfZf< fNf[]bfN, ð•K—v, Å, ·[]BfsfNfZf< fNf[]bfN, ì'ì, í[]A1•b, É[]', <[]ž, Ü, ê, ésfNfZf<[]", ð•S-œ'P^É, ÅŽì, μ, Ü, ·[]B

□...•½'-□,Žü"g□"/kHz

□...•½'-□,Žü"g□"□A,·,È,í,ž□A•ÎĚüŽü"g□",ì'è'è'P^Ê,í kHz,Å,·□B,±,ì'l,ì"í^í,í'Ê□í
30,©,ç110 kHz,Å,·□B,½,Æ,ì,î□A75 Hz,Å,ì%œ'œ"x 1024 x 768,ìê□#□A60 kHz,ì...
•½'-□,Žü"g□",^a•K—v,Å,·□B,±,ì'l,í□AfsfNfZf< f
%ofCf",^a□',«□ž,Ü,è,é'¬,³□A,Å,Ü,è□A"dŽqfr□[f€,^a%A<É□üŠÇ,ì't,đ-^•b%½□ç
%ñ□¶,©,ç%E,É"®,,ì,©,đŽ!,μ,Ü,·□B

fŠftfÆfbfVf... fÆ[fg/Hz

ftfÆ[fÆ fŠftfÆfbfVf...

fÆ[fg, ·, È, í, ç, '¼•ÎĈÛŽÛ"g", ì'á'è'P^Ê, íĀHz, Å, ·B'ÊíĀ'í, ì"í'í, í60, ©, ç100 Hz, Å, ·BHz, Æ, íHertz(fwf<fc), ì—ªĈê, Å, ·B75 Hz, È, çĀA-^•b 75, ìftfÆ[fÆ,ª•\ Ž,ª,³,ê,é,Æ,ç,±,±,Æ,Å,·B

"wĈei, ì, Û, Æ, ñ, Ç,ª•, ìfAfvfŠfP[fVf†f", ìĕê†Ā60 Hz, Å\ª, Å, ·B, æ, è" wĈei, ì-¾, é, ç Windows, ì, æ, ±, ÈfAfvfŠfP[fVf†f", ìĕê†Ā, ç, ç, Å, «, ð-hŽ~, ·, é, ½, ß, ÈĀĀ'á75 Hz^Êĭ, ÅŽĀs, µ, Å,¾,³, çĀB'ÊíĀĀ"K, ÈfŠftfÆfbfVf... fÆ[fg, í85 Hz, Å, ·BfŠftfÆfbfVf... fÆ[fg,ª100 Hz, ð%oz, ì, Å, à-Ú, ÅSm" F, Å, «, é%ü'P, ì, è, Û,ª,ñĀB

'Êí, ìfmf"fCf"f^ [fÆ[fX"®Ā, Å, íĀftfÆ[fÆ, ìfŠftfÆfbfVf... fÆ[fg, ì, '¼•ÎĈÛŽÛ"g", Æ"- , Ā, ·B 'á...•½'-Ā, ŽÛ"g", Å, àĀ, fŠftfÆfbfVf... fÆ[fg, ð^óĀÛ•t, -, é, ½, ß, ÈfCf"f^ [fÆ[fX fffBfXfvfÆfC,ª%ß<Ž, È, æ, —p, ç, è, Û, µ, ½ĀB, ±, ìf, Āfh, Å, íĀŠeftfÆ[fÆ,ª2•ªŠ,,,³, è, Û, ·BĀĀ%ü, ì"¼•ª, ìftfÆ[fÆ, Å<Ā" f%ofCf",ª•`%œ,ª, èĀ1f%ofCf"fv•ªfvftfg, µ, ÅŠiĀ", ìf%ofCf",ª•`%œ,ª, è, Û, ·B, µ, ½,ª, Á, Ā, '¼•ÎĈÛŽÛ"g", ìftfÆ[fÆ fŠftfÆfbfVf... fÆ[fg, ì" {, È, È, è, Û, ·B , ±, ì•\Ž|Žè-@, íĀfēfÆfr, ÈŽg, í, è, Ā, ç, ĀĀIBM 8514/A frfffi fAf_fvf^, È, àĀ—p,ª,³, è, Ā, ç, Û, ·B , ½,¾, µĀA•\Ž|•î^Ê,ª, ç, ì, ìfmf"fCf"f^ [fÆ[fX f, Āfh, ì•û, Å, ·B

ftfÆ[fÆ fŠftfÆfbfVf... fÆ[fg, ìf, fjf^, ðĀİŌĀHŠw"í, ÈĈ©, ½ĕê†ĀĀd—v, Å, ·B75 Hz, ð%œ%œñ, èfŠftfÆfbfVf... fÆ[fg, âĀfCf"f^ [fÆ[fX, ìŽg—p, íĀİŌĀHŠw"í, ÈĀD, Û, µ, È, ç, Æ,ª,³, è, Ā, ç, Û, ·B , à, ç, è, ñĀİŌĀHŠw"í, È, íĀA•úŽĔĀü,ªĀ, È, ç, ±, Æ, âĀf, fjf^ fTfCfY, ", æ, Ñfhfbfg fsfbf` , È"K, µ, ½%œđ'œ"x, È, Ç, ì"ÁĀ«, àĀ—Ā,ª,³, è, Û, ·B

f}f<f`fXfNfŠ[]f“(MULTIman)

fRf“fsf...[]f^,É ELSA MULTIman Windows fhf%ofCfo,afCf“fXfg[]f<,³,ê,Ä,ç
,ê,î[]AWindows,đ‘½fXfNfŠ[]f“(f}f<f`fXfNfŠ[]f”),ÅŽg,κ,±,Æ,ª,Å,«,Ü,·[]BfRf“fsf...
[]f^,É,ÍELSA fOf%oftfBfbfN f{[]fh,ª 1-‡^È[]ãfCf“fXfg[]f<,³,ê,Ä,ç
,È,¯,ê,î,È,è,Ü,¹,ñ[]B,½,¾,μ‘¼,lf{[]fh,Æ”C^Ó,É‘g,Ý[]‡,í,ª,Å,«,é,í,¯,Å,í, ,è,Ü,¹,ñ[]BŽ
w’è,³,ê,½‘g,Ý[]‡,í,¹^ÈŠO,ÍŽg,|,Ü,¹,ñ[]B“^ê,lfOf%oftfBfbfN f,[]fh,Å[]A“¯,¶—e—
Ê,lf[]f,fŠ,đŽ[],Á,½[]A““™,ìELSAf{[]fh,afCf“fXfg[]f<,³,ê,Ä,ç,ê,î[]A[]Å—
Ç,ìC<%oÊ,đ“¾,é,±,Æ,ª,Å,«,Ü,·[]B

ftfHf“fg fTfCfY

Windows, ÅŽg—p, ., éftfHf“fg fTfCfY, í² □ ® %oÂ”\, Å, . □ BftfHf“fg
fTfCfY, í □ A800x600, Ü, Å, ì%ođ‘œ“x, Å, í 96dpi (□→) □ A1024x768 ^É □ ã, ì%ođ‘œ“x, Å, í
120dpi (‘â), ð • □ ‘ ÊŽg—p, ³, ê, Ü, . □ B

f, fff^ ff[f^, iCE^è

ELSA fOf%oftfBfbfN

f{[fh, ðf, fff^, É“K[±, ³, ¹, é, É, í[Af, fff^“ ®[ì, ìff[f^, Æ”í^í, ðCE^è, ·, é, ±, Æ, º•K—
v, Å, ·[B
, ±, ±, Å, í[Af, fff^, ì[Å^â[... •½’- [, Žü”g[” (kHz), º“Á, É[d—v, Å, ·[B, ±
, ì[ãCEÀ, ð’ , , é, Æ[A[Å^« , ì[ê[±f, fff^, ÉCE[á, ð—^ , ·, ±, Æ, º, , è, Ü, ·[B

f, fff^, ìf[[fj[[[Af, fff^, ì<@Ží-¼

’É[í[Af[[[fj[[, , æ, ÑCE^-¼, ìf, fff^, ì”w-É, É, , è, Ü, ·, º[A, È, ç[ê[±, ìf, fff^ f}ffj...
fAf<, ðŽQ[Æ, µ, Å, , ¾, ³, ç[B

CEö[ìf, fff^ fTfCfY

f, fff^ fTfCfY, ì’l, í[A%oA<É[üŠÇ(CRT), ì’ÍSp[ü, ìCEö[ìfTfCfY, Å, ·[B, ±, è, í[A%oAŽ<•\
Ž’—l^æ, ì’ÍSp[ü, ìfTfCfY, æ, è, à[, µ’â, «, È’l, Å, ·[B^ê”É”l, È’l, í[A14” (35.5 cm)[A17”
(43 cm) [A, Ü, ½, ì20” (51 cm), Å, ·[B<L[+u”[v, ìfCf”f^ (2.54 cm), ð•\, µ, Ü, ·[B

[... •½’- [, Žü”g[” , ì”í^í(kHz)[A
[, ¼fŠftfCEfbfVf... fCE[[fg, ì”í^í(Hz)

[Å^â, , æ, Ñ[Å^á, ì[... •½’- [, Žü”g[” , ÆfŠftfCEfbfVf... fCE[[fg, í[A, “Žè<- , ìf, fff^
f}ffj... fAf<, É<L[Ü, ³, è, Å, ç, Ü, ·[B
, ±, ±, Å, í[Af, fff^, ì[Å^â[... •½’- [, Žü”g[” (kHz), º“Á, É[d—v, Å, ·[B, ±
, ì[ãCEÀ, ð’ , , é, Æ[A[Å^« , ì[ê[±f, fff^, ÉCE[á, ð—^ , ·, ±, Æ, º, , è, Ü, ·[B, » , ì¼, ì’l, ºCE^ ,
Ü, ç, É, ç[ê[±[Af[f[, ì, Ü, Ü, É, µ, Å, , ç, Å, ©, Ü, ç, Ü, ¹, ñ[B

f, fff^, ìfvf[fpfefB, iCE^è

f, fff^, ìfvf[fpfefB, ðCE^è, ·, é, É, í[AŽŸ, ÉŽ[, , ç, , Å, ©, ì•û-@, º, , è, Ü, ·[B

f, fff^ f}ffj... fAf<:

f, fff^, ì<Z[pZd—l, í[Af, fff^, É•t’ ® , , éf}ffj... fAf<, É<L[Ü, ³, è, Å, ç, Ü, ·[B

VESA DDC:

f, fff^, ÉVESA DDC fRfIfNf^, º’•”ð, ³, è[AfOf%oftfBfbfN f{[fh, º VESA DDC
CEŸŠ, ì[ê[±[Af, fff^ ff[f^, ìf, fff^ fP[[fuf<, ð%oî, µ, ÅfOf%oftfBfbfN
f{[fh, ÉŽ©“ ® “l, É’—[M, ³, è, Ü, ·[B

VESA VDIF f, fff^<L[qftf@fCf<(*.VDA):

f, fff^, ÉVESA VDIF f, fff^<L[qftf@fCf<(*.VDA), º“Y•t, ³, è, Å, ç, é[ê[±[A•K—
v, Éff[f^, ì, ±, è, ©, ç“Ç, Ý[ž, Ü, è, Ü, ·[Bf, fff^ ff[f^, ð“ü—l, ·, é, Æ, «[AWINman
(ELSA[Ÿ^è), É[AVDIFftf@fCf<, ð“Ç, Ý[ž, p, ½, ß, ìf{f^f” , º•\Ž[, ³, è, Ü, ·[B

ELSA f,fjf^<L□qftf@fCf<WINman.MON:

ELSA f,fjf^<L□qftf@fCf<WINman.MON,ÉŽg—p,·,éf,fjf^,ª<“,ª,Á,Ä,ç,ê,î□A,»,±
,©,çf,fjf^ ff□lf^,ªŽæ“¾,³,ê,Ü,·□B,±,ê,í□Af,fjf^ ff□lf^“ü—
í,ì□Ü,Éf,fjf^,lf□□lf□□,Æ<@Ží-¼,đ'l'đ,·,é,±,Æ,ÅŽ©“®“l,É□s,í,ê,Ü,·□B

f, fĵf^ f}fĵf...fAf<

ELSA fOf%oftfBfbfN

f{ [fh, ðf, fĵf^, ÉĀ“K, Èó‘Ô, Ā“Kĵ, 3, 1, é, ½, ß, ÉĀZÿ, ÉŽ!, ·ff [f^, ðf, fĵf^, ĩf}fĵf...
fAf<, Ā‘T, μ, Ā,, ¾, 3, çB

f, fĵf^ f [f] [Af, fĵf^, ĩ<@Ží-¼ AfCf“f` , Ü, ½, ĩfZf“f` P^Ê, ĩ‘ĩŠpü, ĩĈö ĩf, fĵf^
fTfCfY (=

fCf“f` , Ü, ½, ĩfZf“f` P^Ê, ĩCRT, ĩ‘ĩŠpü fTfCfY) ĀkHz‘P^Ê, ĩĀ‘á, ,, æ, ÑĀ‘â... ·½’-
Ā, Žü”gĀ” (= Ā... ·½·ĩĈüŽü”gĀ” = ‘-

Ā, fĈ [fg) ĀHz‘P^Ê, ĩĀ‘á, ,, æ, ÑĀ‘â, ¼ftfĈ [fĕfŠftfĈfbfVf... fĈ [fg(=
Ā, ¼·ĩĈüŽü”gĀ”)B

, ±, ±, Ā, ĩ Af, fĵf^, ĩ<—eĀ‘â... ·½’-Ā, Žü”gĀ” (kHz), a“Á, ÉĀd—v, Ā, ·B, ±
ĩ, ĩăĈĀ, ð’ , ĩ, é, ĀĀĀ^«, ĩĕĀf, fĵf^, ÉĈĩĀá, ð—^ , , ±, Ā, a, , è, Ü, ·B

WINman.MON

ELSA f,fjf^<L□qftf@fCf<WINman.MON,ÉŽg—p,·,éf,fjf^,ª<“,ª,Á,Ä,ç,ê,î□A,»,±
,©,ç“®□ì”í^í,ª•ª,©,è,Ü,·□B,±,ìftf@fCf<,É,í□Af|fsf...f
%o□[,Èf,fjf^,ìŽâ,È“Á□«,Æ□\$CEÀ,ª<L%o¯,³,ê,Á,ç,Ü,·□B

,±,ìASCIIfefLfXfg ftf@fCf<,É,íf,fjf^,ìff□[f^,ª<L□q,³,ê,Ä,ç
,Ü,·□B,»,ì<L□q,ìfGf“fgfŠ,ìŽŸ,ì,Æ,“,è,Å,·□B
f,fjf^,ìf□□[fj□[□Af,fjf^,ì<@Ží-¼□AfCf“f’P^Ê,ìîŠp□ü,ìCEö□ìf,fjf^
fTfCfY□AkHz’P^Ê,ì□Á’á,“,æ,Ñ□Á’â□...•½’-
□,Žü”g□”□AHz’P^Ê,ì□Á’á,“,æ,Ñ□Á’â□,’¼ftfCE□[f€ fŠftfCEfbfVf...
fCE□[fg□Af~fŠ’P^Ê,ìfsfNfZf< fTfCfY/fhfbbfg fsfbf` □B

,±,ìftf@fCf<,Á,íf,fjf^,ì<L□q,í—á,!,ìŽŸ,ì,æ,α,É,È,è,Ü,·□B
LSA, GDM-17E40, 17", 29-82kHz, 50-150Hz, 0.26mm

VESA VDI f, fff^ < L qftf @ fCf <

VDIF, íf, fff^ Žd—l, ð < L q, , é, ½, ß, ìftf @ fCf < Ě Ž ®, ð'è < , , é VESA
< KŠi, Ā, . □ BVDIFftf @ fCf <, É, Í % œ—Ě, Ì Í Šp □ ü fTfCfY, È, Ç, ìf, fff^ “Ā □ «, â □ A □ Ā'â <—e □ ...
• ½'—□, Žü”g □” (kHz), È, Ç, ìf, fff^, Ì “ ® □” Í Í, É, Ā, ç
, Ā, ìff □ [f^, ā ŠÜ, Ü, ê □ A, » , Ì [PREADJUSTED_TIMING], ìfZfNfVf#f” , É, Í ŠY—
, , éf, fff^ , É “K, μ, ½f, fff^ f^ fCf ~ f” fO, É, Ā, ç, Ā, ìff □ [f^ fZfbfg, ā < L q, ³, ê, Ā, ç, Ü, . □ B

VDIFftf @ fCf <, ð Žg—p, , é, Ā □ Af, fff^ ff □ [f^, Ì • Ű' ¶ □ A ^ ø “n, μ □ A □ Ā—~—p, ā, Ā, «, Ü, . □ B

*. VDA VDIF, Í ASCIIftf @ fCf <, È, Ì, Ā □ A • W □ € , ìf efLfXfg
fGffBf^ , ð Žg, Ā, Ā □ Ì □ —, , æ, N □ C □ ³, , é, ±, Ā, ā, Ā, «, Ü, . □ B
*. VDB VDIF, ìfofCfifŠ fR □ [fh ftf @ fCf <, È, Ì, Ā □ A “Ā Ž ê, È f\ftfgfE fFfA, ¾, , Ā Žg—
p, ³, ê, Ü, . □ B
WINman (ELSA □ Y'è), Í *. VDA
VDIFftf @ fCf <, Ì “Ç, Y Ž æ, è, Ā □ , « □ Ž, Y, ā, Ā, «, Ü, . □ B WINman, āftf @ fCf <, ð □ , « □ Ž, p, Ā, «, Í
□ A WINman, É Š Ö Ě W, , é □ €—
Ű, ¾, , ā < L “ü, ³, ê, Ü, . □ B WINman, Ā □ Ì □ —, ³, ê, ½ftf @ fCf <, ð ¼, ìf\ftfgfE fFfA, ā Žg—
p, , é □ ê □ # □ A □ u = □ v < L □ t, Ì % E, Ì ó — “, É □ A • s' «, μ, ½ □ î • ñ, ð f efLfXfg
fGffBf^ , ð Žg, Ā, Ā < L “ü, , é, ±, Ā, ā • K—v, Ā, . □ B

*. VDA VDIFftf @ fCf <, Í □ A Ž Y, É Ž !, , ç, , Ā, © , ìfZfNfVf#f” , Ā □ □ —, ³, ê, Ā, ç, Ü, . □ B

[VERSION]

VESA < KŠi, ìfo □ [fWf#f”” Ō □ t □ B

[MONITOR_DESCRIPTION]:

Manufacturer = f, fff^ f □ □ [f] □ □ [A ModelNumber = f, fff^ , Ì < @ Ž Í—¼ □ ACRTSize = % œ—
Ě, Ì Í Šp □ ü fTfCfY, È, Ç, Ì ^ è “É “l, È f, fff^ < L □ q □ B

[OPERATIONAL_LIMITS]:

MinHorFrequency = □ Ā'á □ ... • ½'—□, Žü”g □” □ A MaxHorFrequency = □ Ā'á □ ... • ½'—
□, Žü”g □” □ A MinVerFrequency = □ Ā'á □ , ¼ f Šftf Ě fbfVf... f Ě □ [fg □ A MaxVerFrequency
= □ Ā'á □ , ¼ f Šftf Ě fbfVf... f Ě □ [fg, È, Ç, ìf, fff^, Ì “ ® □” Í Í □ B

[PREADJUSTED_TIMING]:

PreadjustedTimingName = f^ fCf ~ f” fO—¼ □ A HorPixel/VerPixel = X/Y • Ű Ě ü, Ì
% œ ð'œ “x □ A HorFrequency = □ ... • ½'—□, Žü”g □” □ A VerFrequency =
□, ¼ f Šftf Ě fbfVf... f Ě □ [fg □ A PixelClock = fsfNfZf < fNf □ fbfN f Ě □ [fg □ A TotalTime =
Ž Ž Š Ō □ † Ě v □ A AddrTime = • \ Ž ! Ž Ž Š Ō □ A BlankStart = • \ Ž !, ā Ž n, Ü, Ā, Ā, © , ç fuf
% œ f “fLf” fO, ā Ž n, Ü, é, Ü, Ā, Ì Ž Ž Š Ō □ A BlankTime = fuf % œ f “fLf” fO Ž Ž Š Ō □ A SyncStart = • \
Ž !, ā Ž n, Ü, Ā, Ā, © , ç “Š ú f p f < fX, ā Ž n, Ü, é, Ü, Ā, Ì Ž Ž Š Ō □ A SyncTime =
“Š ú f p f < fX, Ì Ž □ ± Š ú Š Ō, È, Ç, ìf, fff^ f^ fCf ~ f” fO, ìff □ [f^ fZfbfg □ B

VESA VDIF f,fjf^<L□qftf@fCf<,ì“Ç,ÝŽæ,è

ELSA fOf%oftfBfbfN

f{□[fh,ðf,fjf^,É“K□‡,³,¹,é,½,ß,É□Af,fjf^“®□ì,ìff□[f^,Æ”í^í,ðCE^è,·,é,±,Æ,ª•K—
v,Å,·□BŽg—pf,fjf^,ÉŠY“—,·,éVESA VDIFf,fjf^<L□qftf@fCf<(*.VDA)
,ª, ,è,í□A,» ,ìftf@fCf<,ðŽg—p,μ,Ä,,¾,³,ç□B,» ,ì¼,ì•û-@,í□Af,fjf^
ff□[f^,ìCE^è,Æ,ç,αCE©□o,μ,Å□à-¾,³,è,Ä,ç,Û,·□B

[WINman (ELSA□Ýè)],ì[VESA VDIF f,fjf^<L□qftf@fCf<,ð“Ç,ÝŽæ,é]
,ìf_fCfAf□fO,Å□A,Û,·•K—v,Èff%oo□□□[“x (’É□í□A8 bpp = 256□F),ð’l’ð,μ,Û,·□Bffj
%oo□□□[“x,ª□,ç,Æ□A’l’ð,Å,« ,éf,fjf^ f^fCf~f“fO,ì’l,ÌŽ©“®“l,É□¬,³,-
,É,è,Û,·□BŽÝ,É•K—v,Èf,fjf^ f^fCf~f“fO,ð’l’ð,μ,Û,·□B□Å□%oo,ì2,Ä,ì’l,íX,ÆY,ì
%ooð’œ“x (□...•½,Æ□,¼,ì%ooð’œ“x),ð•\,í,μ,Û,·□B%ooð’œ“x,ìf,fjf^ fTfCfY,ª
15",Û,Å,ìf,fjf^,É,ì 800 x 600□A16",©,ç18",Û,Å,ìf,fjf^,É,ì 1024 x
768□A19"ˆÉ□ã,ìf,fjf^,É,ì 1280 x 1024,ª•□’É,Å,·□BŽÝ,ì’l,ìftfCE□[f€,ìŠftfCEfbfVf...
fCE□[fg(ftfCE□[f€/•b),ð Hz’P^É,Å•\,í,μ,Ä,ç,Û,·□B
"wCEi,ì,Û,Æ,ñ,Ç,ª□•,ìfAfvfŠfP□[fVf†f",ì□è□‡□A60 Hz,Å□\•ª,Å,·□B,æ,è" wCEi,ì-
¾,é,ç Windows ,ì,æ,α,ÈfAfvfŠfP□[fVf†f",ì□è□‡□A,ì,ç,Ä,« ,ð-
hŽ~,·,é,½,ß,É□A□Á’á75 Hz^É□ã,ÄŽÀ□s,μ,Ä,,¾,³,ç□B’É□í□A□Á“K,ÈfŠftfCEfbfVf...
fCE□[fg,ì85 Hz,Å,·□BfŠftfCEfbfVf... fCE□[fg,ª100 Hz,ð%ooz,ì,Ä,à-Û,ÅŠm" F,Å,« ,é
%ooü’P,ì, ,è,Û,¹,ñ□B

ªCEè□ui□v,·,æ,Ñ□uni□v,í□A,» ,è,¼,èfCf“f^□□fCE□[fX,·,æ,Ñfmf“fCf“f^□□fCE□[fX,ð
•\,í,μ,Ä,ç,Û,·□B
kHz,ì’l,í□...•½’-□,Žü”g□”,ð•\,í,μ,Û,·□B,±,è,ªf,fjf^,ì□Á’á...•½’-
□,Žü”g□”,ð’ ,ì,Ä,í,ç, ,Û,¹,ñ(VDIFftf@fCf<,Å’ ,ì,é,±,Æ,ì, ,è,Û,¹,
ñ)□BMHz,ì’l,ìfsfNfZf< fNf□fbfN,ð•\,í,μ,Û,·□BfOf%oftfBfbfN f{□[fh,í□A,» ,ìfsfNfZf<
fNf□fbfN,ð□¶□¬,Å,« ,é,±,Æ,ª•K—v,Å,·(WINman,ªf`fFfbfN,μ,Û,·)□B

f, fjjf^ f^fCf~f"fo, ð VESA VDIF ftf@fCf<, Æ, μ, Å•Û'¶, , é

[WINman (ELSA ¶Ý'è)], ìf_fCfAf¶fO[VESA VDIF f, fjjf^ <L¶qftf@fCf<, Æ, μ, Å•Û'¶]
, Å, Í¶A¶V, μ, ¶f, fjjf^ f^fCf~f"fo, ð VESA VDIF f, fjjf^ <L¶qftf@fCf<(*.VDA)
, É•Û'¶, ð, è, Ü, ¶B

, ±, ±, Å, Í¶A Windows, Í¶V, μ, ¶fOf%oftfBfbfN f, ¶[fh, É, Í¶Ø, è'Ö, í, è, Ü, ð, ñ¶B

VDIF, Í¶Af, fjjf^ "Å¶«, ð<L¶q, , é, ½, ß, ìff¶[f^Æ`Ž®, ð'è<` , , éVESA<KŠi, Å, ¶BVDIFftf@
fCf<, É, Í¶æ-É, Ì'ÍŠp¶üfTfCfY, È, Ç, ìf, fjjf^ "Å¶«, â¶A¶Å'â<-e¶... •½'-¶, Žü"g¶"(kHz)
, È, Ç, ìf, fjjf^, Ì"®¶"Í'Í, É, Å, ¶, Å, ìff¶[f^, ðSÜ, Ü, è¶A, »), Ì[PREADJUSTED_TIMING]
, ìfZfNfvf¶f", É, ÍSY"- , , éf, fjjf^, É"K, μ, ½f, fjjf^ f^fCf~f"fo, É, Å, ¶, Å, ìff¶[f^
fZfbfg, ð<L¶q, ð, è, Å, ¶, Ü, ¶B
VDIFftf@fCf<, ðŽg-p, , é, Æ¶Af, fjjf^ ff¶[f^, Ì•Û'¶¶A^ø"n, μ¶A¶Ä-~ -p, ð, Å, «, Ü, ¶B

[WINman (ELSA ¶Ý'è)], Í¶A¶V<KVDIFftf@fCf<-
p, ìfef"fvfÆ¶[fg, ð¶ì¶- , μ, Ü, ¶B WINTM, Å, Í, , x, Å, Ì¶€-Ú, ð"ü-Í, ð, è, é, í, -, Å, È, -
¶Aftf@fCf<, ð-~ -p, , é, Ì, É¶Å"Ç, Ý¶ž, Ý, , é•K-v, Ì, , é¶€-
Ú, ¾, -, Å, ¶Bftf@fCf<, ð¼, ìfvf¶fOf%of€, ÅŽg-p, , é¶ê¶¶A¼, Ì¶€-Ú, à"ü-
Í, μ, È, -, è, Í, È, è, Ü, ð, ñ¶BfL¶[f¶[fh, ð, , é, Ì, É¶A¶u=¶v<L¶t, Ì%oE'x, ð<ó", Ì¶ó'Ô, Å, , è, Ì¶
A•s'« , μ, ½¶î•ñ, ð<L'ü, μ, È, -, è, Í, È, è, Ü, ð, ñ¶B*.VDA VDIF, Í¶f¶^, È
ASCIIftf@fCf<, È, Ì, Å¶A^È¶ã, Ì¶ì<Æ, Í•W¶€, ìfefLfXfg fGfffBf^, Å¶s, Ì, Ü, ¶B
WINman, Í, , x, Å, ìf, fjjf^
f^fCf~f"fo, É'Í, μ, Å¶V<Kftf@fCf<, ð¶ì¶- , μ, Ü, ¶B"^-^èf, fjjf^, É•i¶", ìf, fjjf^
f^fCf~f"fo, ð® , μ¶A, » , è, ç, ð, Ð, Æ, Å, È, , é¶ê¶¶AfefLfXfg
fGfffBf^, ðŽg, Å, Å¶A¼, ìftf@fCf<, Ì[PREADJUSTED_TIMING]fZfNfvf¶f", ð¶A¶%o
, ìftf@fCf<, Ì¶Í, í, è, É'Ç%oÅ, μ, È, -, è, Í, È, è, Ü, ð, ñ¶B

VDIFftf@fCf<-¼

VDIFftf@fCf<, Ì¶A¶%o, Ì 3•¶Žš, ìf, fjjf^ f¶[fj¶[-¼, Å¶A'±,
5, Å, Ì•¶Žš, Ü, ½, Ì¶"Žš, ìf, fjjf^, Ì<@ŽÍ-¼, Å, ¶Bftf@fCf<-¼, ÌŠg'£Žq, Í.VDA, É, μ, Å, -
, ¾, ð, ¶B"ü-Í, ð, è, ½f¶fX-¼, Í¶A, Å, «, è, ìftf@fCf<[fffBfXfN, Å, È, fn¶[fh
fffBfXfN, ÉŽw'è, μ, Ü, ¶Bftf@fCf<[fffBfXfN, ÉŽw'è, , é, Æ¶A•Û'¶, É, ©, È, è', ¶žžšÔ,
ð-v, μ, Ü, ¶B

Æö¶ìf, fjjf^ ftfCfY

f, fjjf^ ftfCfY, Ì'Í, Í¶A¶%A<É¶üŠÇ(CRT), Ì'ÍŠp¶ü, ÌÆö¶[ftfCfY, Å, ¶B, ±, è, Í¶A¶%oÅŽ<•\
ŽÍ-Í'æ, Ì'ÍŠp¶üfTfCfY, æ, è, à¶, μ'â, «, È'Í, Å, ¶B^è"É"Í, È'Í, Í¶A14" (35.5 cm)¶A17" (43
cm) ¶A20" (51 cm), Å, ¶B<L¶t¶u¶v, ìfCf" f` (2.54 cm), Ì, ±, Æ, Å, ¶Bfvf¶fOf%of€, ðŽg-
p, , é, Ì, ìfCf" f` , Ì'Í, ¾, -, Å, , ð¶A, ±, Ì'Í, ðÆ^ , ß, é, Ì, É¶A'ÍŠp¶ü, ìftfCfY, ðfZf" f` , Å•\, í, μ, Å¶A
%oÅŽ<%oæ-É-Í'æ, ðfZf" f` , Å'è, μ, ½, Ý, Å, à, æ, ¶, Å, μ, ð, x¶B

kHz¶...½'-¶, Žü"g¶"Í'Í¶A

Hz¶, ¼fŠftfÆfbfVf... fÆ¶[fg, Ì"Í'Í
¶A'á, Æ¶A'â, Ì¶...½'-¶, Žü"g¶", ÆftfÆ¶[f€, ìfŠftfÆfbfVf... fÆ¶[fg, ìf, fjjf^ f}fjjf...

fAf<,É,à<LÚ,³,ê,Ä,ç,Ü,·B
,±,±,Å,íAf,fjf^,ìÅ'â...•½'-,Žü"g"(kHz),^a“Á,Éd—v,Å,·B,±
,ìãÆÀ,ð',!,é,ÆAÅ^«,ìêf,fjf^,ÉÆìá,ð—^,·,±,Æ,^a,è,Ü,·B

VESA DPMS

ffBfXfvfCfC,ì“d—ÍŠÇ—□□M□†

VESA DPMS<KŠi,í□Af,fjf^—çŽg—pŽž,ì□È“d—Íf,□[fh,É□Ø,è‘Ö,í,é•û-
@,đ<L□q,μ,Ä,ç,Ü,·□B,±,ì•û-@,ÍfXfNfŠ□[f“ fZ□[fo□[fvf□fOf%of€
,É,Ç,É,æ,èŽ©“®“l,É<N“®),Å,«,Ü,·□B,±,é,ÍfL□[f{□[fh,Æf}fEfX,^a, ,é^è‘è,ìŽžŠÔŽg
—p,³,é,È,ç,Æ□Af,fjf^,đ□È“d—Íf,□[fh,É,μ,Ü,·□BfL□[,đ
%oÿ,·,©f}fEfX,đ“®),©,·,Æ□Af,fjf^,í□³í,È“®ì,É□Ø,è‘Ö,í,è,Ü,·□B

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ON

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fXf^f“fofC

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□M,³,é,Ü,·□B
,±,Íf,□[fh,Í□í,ÉfTf|□[fg,³,é,Ä,ç,é,í,~,Å,í, ,è,Ü,¹,ñ□B

fTfXfyf“fh

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OFF

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□M,³,é,Ü,·□B

fCfWfXfgfŠ,ift[fU fAfJfEf“fgC —

fCfWfXfgfŠ,Ö,ì‘,«ž,ÝC —,đŽ,Á,Ä,ç,È,ç,½,ß,É[A[OK],Ü,½,í[“K—p]f{f^f“,đ
%oÿ,µ,½Cä,É[AfOf%oftfBfbfN f,[fh,đØ,è’Ö,ì,é,±,Æ,ì,Å,«,È,çŽ,đ’m,ç,¹,éfGf
%o[f ffbfZ[fW,²o,½ê#AŽÿ,ÉŽ!,·,Æ,“,èAŞÇ—ŽÒ,É,»,ìC —,đ—v<,µ,Ä,-
³/₄,³,çB

fCfWfXfgfŠ,Å[A[HKEY_LOCAL_MACHINE]AŽÿ,É[System\CurrentControlSet\
Services\WINNER],Æi,ñ,ÅfL[,đ’ì,đ,µ,Ü,·B[Security]x[Permissions]
,đ’ì,đ,µ,ÄAf_fCfAf[fO[Registry Key Permissions],đŠ],«,Ü,·B
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,ì[Registry Key Permissions],đŠg’£,µ,Ü,·B,Å,Ü,è,±,ìfOf<[fv,É’ì,µ,ÄA[Special
Access...],ì,Æ,±,è,Å[A[Query Value]A[Set Value]A[Create Subkey]A[Enumerate
Subkeys]A[Delete],ìŠefAfNfZfXC ,đ—^,!,ÄA[Type of Access]
,đC³,µ,Ü,·Bf_fCfAf[fO[Registry Key Permissions],Åf`fFfbfNf{fbfNfX[Replace
Permission on Existing Subkeys],đfAfNfefBfu,É,µ,Ü,·B

