

Soft Font Library

0 3 4 ! # \$
D S F d s f
Δ Σ Φ δ σ φ

for the

RAMTEX LCD Drivers

Font Version 1.0.12

The font library contains 551 different pixel fonts for ASCII, Unicode, Iso8859 or Dos code-pages, with a total of more than 200000 characters.

The fonts can be used directly together with the RAMTEX LCD driver libraries. The same fonts can be used with both black-and-white, grey-scale, and color displays.

The fonts are delivered as C source code. Font data is an array of structures and can therefore be read and edited with a normal text editor, with IconEdit, the LCD Icon Editor design tool, or FontEdit, the Font Editor design tool. Both the black & white version and the color version of IconEdit can be used.

For more information visit the RAMTEX homepage <http://www.ramtex.dk>

Fonts in the font library:

The fonts in the font library are organized according to their encoding method, and then subsequently according to what character set they cover. The font files are placed in a directory structure like this:

Font

AREAL Characters and symbols as defined in the ASCII standard supplemented with Western European characters arrows and numbers for super- and subscript. The fonts aer all proportional fonts

The Areal_XxX. fonts all look like this:

```

  0 1 2 3 4 5 6 7 8 9 A B C D E F
00 0 1 2 3 4 5 6 7 8 9 0 ■ ■ ●
10 0 1 2 3 4 5 6 7 8 9 ◀ ▶ ▼ ▲ ◀▶▶
20 ! " # $ % & ' ( ) * + , - . /
30 0 1 2 3 4 5 6 7 8 9 : ; < = > ?
40 @ A B C D E F G H I J K L M N O
50 P Q R S T U V W X Y Z [ \ ] ^ _
60 ` a b c d e f g h i j k l m n o
70 p q r s t u v w x y z { | } ~
80 € , f „ … † ‡ ^ % Š < Œ Ž
90 ‘ ’ “ ” • – — ~ ™ š > œ ž Ÿ
A0 ¡ ¢ £ € ¥ ¦ § ¨ © ª « ¬ ® ¯
B0 ° ± ² ³ ´ µ ¶ · ¸ ¹ º » ¼ ½ ¾ ¿
C0 À Á Â Ã Ä Å Æ Ç È É Ê Ë Ì Í Î Ï
D0 Ð Ñ Ò Ó Ô Õ Ö × Ø Ù Ú Û Ü Ý Þ ß
E0 à á â ã ä å æ ç è é ê ë ì í î ï
F0 ð ñ ò ó ô õ ö ÷ ø ù ú û ü ý þ ÿ
```

Areal_10x12	ABCabc
Areal_11x14	ABCabc
Areal_13x16	ABCabc
Areal_17x18	ABCabc
Areal_18x21	ABCabc
Areal_21x24	ABCabc
Areal_23x27	ABCabc
Areal_28x32	ABCabc
Areal_34x40	ABCabc
Areal_42x48	ABCabc

Areal_49x56

ABCabc

Areal_55x64

ABCabc

ASCII Characters and symbols as defined in the ASCII standard supplemented with Western European characters and numbers for super- and subscript. The fonts with names ending with p is proportional fonts, the others are monospace.

The a.... fonts all look like this:

	0	1	2	3	4	5	6	7	8	9	A	B	C	D	E	F
00	0	1	2	3	4	5	6	7	8	9						
10	0	1	2	3	4	5	6	7	8	9						
20	!	"	#	\$	%	&	'	()	*	+	,	-	.	/	
30	0	1	2	3	4	5	6	7	8	9	:	;	<	=	>	?
40	@	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O
50	P	Q	R	S	T	U	V	W	X	Y	Z	[\]	^	_
60	`	a	b	c	d	e	f	g	h	i	j	k	l	m	n	o
70	p	q	r	s	t	u	v	w	x	y	z	{		}	~	
80	€	‚	ƒ	„	…	†	‡	ˆ	‰	Š	‹	Œ	Ž			
90	‘	’	“	”	•	—	˜	™	š	›	œ	ž	ÿ			
A0	ı	¢	£	¤	¥	¦	§	¨	©	ª	«	¬	-	®	¯	
B0	°	±	²	³	´	µ	¶	·	¸	¹	º	»	¼	½	¾	¿
C0	À	Á	Â	Ã	Ä	Å	Æ	Ç	È	É	Ê	Ë	Ì	Í	Î	Ï
D0	Ð	Ñ	Ò	Ó	Ô	Õ	Ö	×	Ø	Ù	Ú	Û	Ü	Ý	Þ	ß
E0	à	á	â	ã	ä	å	æ	ç	è	é	ê	ë	ì	í	î	ï
F0	ð	ñ	ò	ó	ô	õ	ö	÷	ø	ù	ú	û	ü	ý	þ	ÿ

- a10x12 ABCabc
- a10x12p ABCabc
- a11x14 ABCabc
- a11x14p ABCabc
- a13x16 ABCabc
- a13x16p ABCabc
- a16x18 ABCabc
- a16x18p ABCabc
- a18x18 ABCabc
- a18x18p ABCabc

a16x20 **A B C a b c**
a16x20p **ABCabc**
a18x20 **A B C a b c**
a18x20p **ABCabc**
a16x22 **ABCabc**
a16x22p **ABCabc**
a21x22 **A B C a b c**
a21x22p **ABCabc**
a18x24 **ABCabc**
a18x24p **ABCabc**
a21x24 **A B C a b c**
a21x24p **ABCabc**
a22x26 **A B C a b c**
a22x26p **ABCabc**
a23x28 **A B C a b c**
a23x28p **ABCabc**
a22x30 **ABCabc**
a22x30p **ABCabc**
a25x30 **A B C a b c**
a25x30p **ABCabc**
a24x32 **ABCabc**
a24x32p **ABCabc**
a28x32 **A B C a b c**
a28x32p **ABCabc**
a27x36 **ABCabc**
a27x36p **ABCabc**
a31x36 **A B C a b c**
a31x36p **ABCabc**
a36x36 **A B C a b c**

a36x36p **ABCabc**
a32x40 **A B C a b c**
a32x40p **ABCabc**
a34x40 **A B C a b c**
a34x40p **ABCabc**
a32x44 **A B C a b c**
a32x44p **ABCabc**
a39x44 **A B C a b c**
a39x44p **ABCabc**
a40x48 **A B C a b c**
a40x48p **ABCabc**
a42x48 **A B C a b c**
a42x48p **ABCabc**
a40x52 **A B C a b c**
a40x52p **ABCabc**
a44x52 **A B C a b c**
a44x52p **ABCabc**
a48x56 **A B C a b c**

a48x56p **ABCabc**
a49x56 **A B C a b c**
a49x56p **ABCabc**
a48x60 **A B C a b c**
a48x60p **ABCabc**
a52x60 **A B C a b c**
a52x60p **ABCabc**
a48x64 **A B C a b c**
a48x64p **ABCabc**
a55x64 **A B C a b c**
a55x64p **ABCabc**

The b.... fonts all look like this:

	0	1	2	3	4	5	6	7	8	9	A	B	C	D	E	F	
00	0	1	2	3	4	5	6	7	8	9	0						
10	0	1	2	3	4	5	6	7	8	9							
20	!	"	#	\$	%	&	'	()	*	+	,	-	.	/		
30	0	1	2	3	4	5	6	7	8	9	:	;	<	=	>	?	
40	@	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	
50	P	Q	R	S	T	U	V	W	X	Y	Z	[\]	^	_	
60	`	a	b	c	d	e	f	g	h	i	j	k	l	m	n	o	
70	p	q	r	s	t	u	v	w	x	y	z	{		}	~		
80	€	‚	ƒ	„	…	†	‡	^	%	Š	<	Œ	Ž				
90	‘	’	“	”	•	—	~	™	š	>	œ	ž	ÿ				
A0	ı	€	£	¤	¥	¦	§	¨	©	ª	«	¬	®	¯			
B0	°	±	²	³	´	µ	¶	·	¸	¹	º	»	¼	½	¾	¿	
C0	À	Á	Â	Ã	Ä	Å	Æ	Ç	È	É	Ê	Ë	Ì	Í	Î	Ï	
D0	Ð	Ñ	Ò	Ó	Ô	Õ	Ö	×	Ø	Ù	Ú	Û	Ü	Ý	Þ	ß	
E0	à	á	â	ã	ä	å	æ	ç	è	é	ê	ë	ì	í	î	ï	
F0	ø	ñ	ò	ó	ô	õ	ö	÷	ø	ù	ú	û	ü	ý	þ	ÿ	

- b11x12 **A B C a b c**
- b11x12p **ABCabc**
- b12x14 **A B C a b c**
- b12x14p **ABCabc**
- b12x16 **A B C a b c**
- b12x16p **ABCabc**
- b15x16 **A B C a b c**
- b15x16p **ABCabc**
- b13x18 **A B C a b c**
- b13x18p **ABCabc**
- b16x18 **A B C a b c**
- b16x18p **ABCabc**
- b16x20 **A B C a b c**
- b16x20p **ABCabc**
- b18x20 **A B C a b c**
- b18x20p **ABCabc**
- b16x22 **A B C a b c**
- b16x22p **ABCabc**
- b20x22 **A B C a b c**
- b20x22p **ABCabc**
- b19x24 **A B C a b c**
- b19x24p **ABCabc**
- b22x24 **A B C a b c**
- b22x24p **ABCabc**

b24x26 **A B C a b c**

b24x26p **ABCabc**

b25x26 **A B C a b c**

b25x26p **ABCabc**

b24x28 **A B C a b c**

b24x28p **ABCabc**

b25x28 **A B C a b c**

b25x28p **ABCabc**

b24x30 **A B C a b c**

b24x30p **ABCabc**

b27x30 **A B C a b c**

b27x30p **ABCabc**

b24x32 **A B C a b c**

b24x32p **ABCabc**

b29x32 **A B C a b c**

b29x32p **ABCabc**

b28x36 **A B C a b c**

b28x36p **ABCabc**

b32x36 **A B C a b c**

b32x36p **ABCabc**

b32x40 **A B C a b c**

b32x40p **ABCabc**

b36x40 **A B C a b c**

b36x40p **ABCabc**

b36x44 **A B C a b c**

b36x44p **ABCabc**

b40x44 **A B C a b c**

b40x44p **ABCabc**

b43x48 **A B C a b c**

b43x48p **ABCabc**

b40x52 **A B C a b c**

b40x52p **ABCabc**

b46x52 **A B C a b c**

b46x52p **ABCabc**

b48x56 **A B C a b c**

b48x56p **ABCabc**

b50x56 **A B C a b c**

b50x56p **ABCabc**

b48x60 **A B C a b c**

b48x60p **ABCabc**

b53x60 **A B C a b c**

b53x60p **ABCabc**

b48x64 **ABC a b c**

b48x64p **ABCabc**

b56x64 **ABC a b c**

b56x64p **ABCabc**

b57x64 **ABC a b c**

b57x64p **ABCabc**

The c.... fonts all look like this:

	0	1	2	3	4	5	6	7	8	9	A	B	C	D	E	F
00	0	1	2	3	4	5	6	7	8	9	0					
10	0	1	2	3	4	5	6	7	8	9						
20	!	"	#	\$	%	&	'	()	*	+	,	-	.	/	
30	0	1	2	3	4	5	6	7	8	9	:	;	<	=	>	?
40	@	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O
50	P	Q	R	S	T	U	V	W	X	Y	Z	[¥]	^	~
60	`	a	b	c	d	e	f	g	h	i	j	k	l	m	n	o
70	p	q	r	s	t	u	v	w	x	y	z	{		}	~	o
80			;	f	::	...	†	‡	^	%	Š	<	€		ž	Ÿ
90							-	-	~	™	š	>	œ		ž	Ÿ
A0		i	ø	£	¤	¥	¦	§	¨	©	ª	«	¬	-	®	¯
B0	°	±	²	³	´	µ	¶	·	,	¹	º	»	¼	½	¾	¿
C0	À	Á	Â	Ã	Ä	Å	Æ	Ç	È	É	Ê	Ë	Ì	Í	Î	Ï
D0	Ð	Ñ	Ò	Ó	Ô	Õ	Ö	×	Ø	Ù	Ú	Û	Ü	Ý	Þ	ß
E0	à	á	â	ã	ä	å	æ	ç	è	é	ê	ë	ì	í	î	ï
F0	ð	ñ	ò	ó	ô	õ	ö	÷	ø	ù	ú	û	ü	ý	þ	ÿ

c6x10p ABCabc
 c8x12 ABCabc
 c8x12p ABCabc
 c8x14 ABCabc
 c8x14p ABCabc
 c11x16 ABCabc
 c11x16p ABCabc
 c10x18 ABCabc
 c10x18p ABCabc
 c13x20 ABCabc
 c13x20p ABCabc
 c10x22 ABCabc
 c10x22p ABCabc

The d... fonts all look like this:

	0	1	2	3	4	5	6	7	8	9	A	B	C	D	E	F
00	0	1	2	3	4	5	6	7	8	9						
10	0	1	2	3	4	5	6	7	8	9						
20	!	"	#	\$	%	&	'	()	*	+	,	-	.	/	
30	0	1	2	3	4	5	6	7	8	9	:	;	<	=	>	?
40	@	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O
50	P	Q	R	S	T	U	V	W	X	Y	Z	[\]	^	_
60	`	a	b	c	d	e	f	g	h	i	j	k	l	m	n	o
70	p	q	r	s	t	u	v	w	x	y	z	{		}	~	
80	€	,	f	„	...	†	‡	^	%	Š	‹	œ	Ž			
90	‘	’	“	”	•	—	~	™	š	›	œ	ž	ÿ			
A0	ı	¢	£	¤	¥	¦	§	¨	©	ª	«	¬	-	®	¯	
B0	°	±	²	³	´	µ	¶	·	¸	¹	º	»	¼	½	¾	¿
C0	À	Á	Â	Ã	Ä	Å	Æ	Ç	È	É	Ê	Ë	Ì	Í	Î	Ï
D0	Ð	Ñ	Ò	Ó	Ô	Õ	Ö	×	Ø	Ù	Ú	Û	Ü	Ý	Þ	ß
E0	à	á	â	ã	ä	å	æ	ç	è	é	ê	ë	ì	í	î	ï
F0	ð	ñ	ò	ó	ô	õ	ö	÷	ø	ù	ú	û	ü	ý	þ	ÿ

d9x16 ABCabc
 d9x16p ABCabc

d12x18	A B C a b c
d12x18p	ABCabc
d12x20	A B C a b c
d12x20p	ABCabc
d12x22	A B C a b c
d12x22p	ABCabc
d14x24	A B C a b c
d14x24p	ABCabc
d16x26	A B C a b c
d16x26p	ABCabc
d20x30	A B C a b c
d20x30p	ABCabc
d20x32	A B C a b c
d20x32p	ABCabc
d20x36	A B C a b c
d20x36p	ABCabc
d24x36	A B C a b c
d24x36p	ABCabc
d24x40	A B C a b c
d24x40p	ABCabc
d30x44	A B C a b c
d30x44p	ABCabc
d32x48	A B C a b c
d32x48p	ABCabc
d32x52	A B C a b c

d32x52p ABCabc

d32x56 ABC a b c

d32x56p ABCabc

d40x56 A B C a b c

d40x56p ABCabc

d40x60 A B C a b c

d40x60p ABCabc

d40x64 A B C a b c

d40x64p ABCabc

Unicode

Latin-1 Roman characters with all the super and sub accents used in connection with roman characters. These characters have large amount of white space above and below the basic characters to make room for the accents used. The fonts use the RAMTEX codepage system, all these fonts are proportional and contains more than 730 characters each.

u13x18 **ABCabc**

ui13x18 **ABCabc**

u16x21 **ABCabc**

ui16x22 **ABCabc**

u19x22 **ABCabc**
ui19x22 **ABCabc**
u19x23 **ABCabc**
ui19x23 **ABCabc**
u21x29 **ABCabc**
ui21x29 **ABCabc**
u24x28 **ABCabc**
ui24x28 **ABCabc**
u24x31 **ABCabc**
ui24x31 **ABCabc**
u39x39 **ABCabc**
ui32x39 **ABCabc**
u31x41 **ABCabc**
ui31x41 **ABCabc**
u42x49 **ABCabc**
ui42x49 **ABCabc**

LatGrCy Characters from many languages: **L** Latin **Gr** Greek **Cy** Cyril **Am** Armenian **He** Hebrew **Ab** Arabic **T** Thai **Ge** Georgian **E** Ethiopic **Ce** Cherokee **R** Runic. All these fonts are mono-space, and the fonts use the RAMTEX codepage system.

e5x8 L Gr Cy He	_ ABCabc
e6x9 L Gr Cy He	_ ABCabc
e6x10 L Gr Cy He	_ ABCabc
e6x12 L Gr Cy He	_ ABCabc
e6x13 L Gr Cy Am He T Ge R	_ ABCabc
e7x13 L Gr Cy Am He T Ge R	_ ABCabc
e7x14 L Gr Cy Am He T R	_ ABCabc
e8x13 L Gr Cy Am He T Ge R	_ ABCabc
e9x15 L Gr Cy Am He Ab T Ge E R	_ ABCabc
e9x18 L Gr Cy Am He T Ge E Ce R	_ ABCabc
e10x20 L Gr Cy Am He Ab T Ge E R	_ ABCabc

eb6x13 L Gr Cy He
 eb7x13 L Gr Cy He T
 eb7x14 L Gr Cy He T
 eb8x13 L Gr Cy He T
 eb9x15 L Gr Cy He Ab T R
 eb9x18 L Gr Cy He T
 eh6x12 L Gr Cy He
 ei6x13 L Gr Cy
 ei7x13 L Gr Cy T
 ei8x13 L Gr Cy T

_ ABCabc
 _ ABCabc
 _ ABCabc
 _ ABCabc
 _ ABCabc
 _ ABCabc
 _ ABCabc
 _ ABCabc
 _ ABCabc

MiddleEastern Characters from 2 languages: Arabic and Hebrew, the Arabic are in 2 variants using different spacing system for the context dependent characters. All these fonts are proportional-space, and the fonts use the RAMTEX codepage system.

The Arabic fonts all look like this:

	،	؛	؟	ء	آ	أ	ؤ	إ	ئ	اى	ب	ة	ث	ت	ج
ح	خ	د	ذ	ر	ز	س	ش	ص	ض	ظ	ع	غ	ف	ق	ك
٧	٨	٩	٪	،	ء	آ	أ	ؤ	إ	ئ	اى	ب	ة	ث	ت
ئ	ئ	ئ	ا	ب	ب	ب	ب	ة	ة	ت	ت	ت	خ	خ	خ
ث	ث	ث	ج	ج	ج	ح	ح	ح	ح	خ	خ	خ	ش	ش	ش
د	د	د	ر	ر	ر	س	س	س	س	ص	ص	ص	ض	ض	ض
ص	ص	ص	ض	ض	ض	ظ	ظ	ظ	ظ	ع	ع	ع	غ	غ	غ
ع	ع	ع	ك	ك	ك	ل	ل	ل	ل	م	م	م	ن	ن	ن
ه	ه	ه	و	و	و	ي	ي	ي	ي	ي	ي	لا	لا	لا	لا
لا	لا	لا	لا												

12x12
 16x14
 16x16
 20x20
 24x24

_ فطمش
 _ فظضش
 _ فظضش
 _ فظضش
 _ فظضش

28x28	—	فظضش
32x32	—	فظضش
36x36	—	فظضش

The Hebrew fonts all look like this:



10x12	—	והדגבא
11x14	—	והדגבא
10x16	—	והדגבא
14x20	—	והדגבא
15x24	—	והדגבא
17x28	—	והדגבא
20x32	—	והדגבא
21x36	—	והדגבא

Iso8859 Characters for use in different countries. These fonts all contain the characters defined for this particular font, usually the 96 ASCII characters plus up to 96 characters specific to the group of countries the font is specified for. Some are monospace **M** others are proportional **P**.

The **ASCII** part always look like this:

```

0 1 2 3 4 5 6 7 8 9 A B C D E F
20 ? " # $ % & ' < > * + , - . /
30 0 1 2 3 4 5 6 7 8 9 : ; < = > ?
40 @ A B C D E F G H I J K L M N O
50 P Q R S T U V W X Y Z [ \ ] ^ _
60 ` a b c d e f g h i j k l m n o
70 p q r s t u v w x y z { | } ~  

```

I-1-WE Latin-1 Western European.

	0	1	2	3	4	5	6	7	8	9	A	B	C	D	E	F
A0	ı	ç	£	¥	!	§	™	©	≡	«	¬	-	®	¯		
B0	°	±	²	³	´	µ	¶	·	¸	¹	º	»	¼	½	¾	¿
C0	À	Á	Â	Ã	Ä	Å	Æ	Ç	È	É	Ê	Ë	Ì	Í	Î	Ï
D0	Ð	Ñ	Ò	Ó	Ô	Õ	Ö	×	Ø	Ù	Ú	Û	Ü	Ý	Þ	ß
E0	à	á	â	ã	ä	å	æ	ç	è	é	ê	ë	ì	í	î	ï
F0	đ	ñ	ò	ó	ô	õ	ö	÷	ø	ù	ú	û	ü	ý	þ	ÿ

WE6x8 M	_ ABCabc
WE8x8 M	_ ABCabc
WE8x8Fa M	_ ABCabc
WE8x10Fa M	_ ABCabc
WE8x12Fa M	_ ABCabc
WE8x12 M	_ ABCabc
WE8x14 M	_ ABCabc
WE8x16 M	_ ABCabc
WE8x16a M	_ ABCabc
WE12x16 M	_ ABCabc
WE12x16a M	_ ABCabc
WE12x16b M	_ ABCabc
WE12x16o P	_ ABCabc
WE12x16p P	_ ABCabc
WE12x16q P	_ ABCabc
WE14x16 M	_ ABCabc
WE14x16o P	_ ABCabc
WE15x16 M	_ ABCabc
WE15x16o P	_ ABCabc
WE18x24 M	_ ABCabc
WE18x24o P	_ ABCabc
WE19x23 M	_ ABCabc
WE19x23o P	_ ABCabc
WE20x23 M	_ ABCabc
WE20x23o P	_ ABCabc
WE24x32 M	_ ABCabc
WE24x32o P	_ ABCabc

I-2-CE Latin-2 Central European.

	0	1	2	3	4	5	6	7	8	9	A	B	C	D	E	F
A0	À	Á	Â	Ã	Ä	Å	Æ	Ç	È	É	Ê	Ë	Ì	Í	Î	Ï
B0	à	á	â	ã	ä	å	æ	ç	è	é	ê	ë	ì	í	î	ï
C0	À	Á	Â	Ã	Ä	Å	Æ	Ç	È	É	Ê	Ë	Ì	Í	Î	Ï
D0	Ð	Ñ	Ò	Ó	Ô	Õ	Ö	×	Ŕ	Ů	Ú	Û	Ü	Ý	Ţ	ß
E0	ð	ñ	ò	ó	ô	õ	ö	×	ŕ	ů	ú	û	ü	ý	ţ	ß
F0	đ	ň	ó	ô	õ	ö	÷	ř	ů	ú	û	ü	ý	ţ		

CE8x16a	M	_	ABCabc
CE12x16	M	_	ABCabc
CE12x16a	M	_	ABCabc
CE12x16b	M	_	ABCabc
CE12x16o	M	_	ABCabc
CE12x16p	P	_	ABCabc
CE12x16q	M	_	ABCabc
CE14x16	M	_	ABCabc
CE14x16o	P	_	ABCabc
CE15x16	M	_	ABCabc
CE15x16o	P	_	ABCabc
CE18x24	M	_	ABCabc
CE18x24o	P	_	ABCabc
CE19x23	M	_	ABCabc
CE19x23o	P	_	ABCabc
CE20x23	M	_	ABCabc
CE20x23o	P	_	ABCabc
CE24x32	M	_	ABCabc
CE24x32o	P	_	ABCabc

L-3-SE Latin-3 South European.

	0	1	2	3	4	5	6	7	8	9	A	B	C	D	E	F
A0	À	Á	Â	Ã	Ä	Å	Æ	Ç	È	É	Ê	Ë	Ì	Í	Î	Ï
B0	à	á	â	ã	ä	å	æ	ç	è	é	ê	ë	ì	í	î	ï
C0	À	Á	Â	Ã	Ä	Å	Æ	Ç	È	É	Ê	Ë	Ì	Í	Î	Ï
D0	Ð	Ñ	Ò	Ó	Ô	Õ	Ö	×	Ğ	Ù	Ú	Û	Ü	Ŝ	ß	
E0	ð	ñ	ò	ó	ô	õ	ö	×	ğ	ù	ú	û	ü	ŝ	ß	
F0	đ	ň	ò	ó	ô	õ	ö	÷	ğ	ù	ú	û	ü	ŝ		

SE12x16	M	_	ABCabc
---------	---	---	---------------

SE12x16a M	_ ABCabc
SE12x16b M	_ ABCabc
SE12x16o M	_ ABCabc
SE12x16p P	_ ABCabc
SE12x16q M	_ ABCabc
SE14x16 M	_ A B C a b c
SE14x16o P	_ ABCabc
SE15x16 M	_ A B C a b c
SE15x16o P	_ ABCabc
SE18x24 M	_ ABCabc
SE18x24o P	_ ABCabc
SE19x23 M	_ A B C a b c
SE19x23o P	_ ABCabc
SE20x23 M	_ A B C a b c
SE20x23o P	_ ABCabc
SE24x32 M	_ ABCabc
SE24x32o P	_ ABCabc

I-4-NE Latin-4 Northern European.

	0	1	2	3	4	5	6	7	8	9	A	B	C	D	E	F
A0	À	Á	Â	Ã	Ä	Å	Æ	Ç	È	É	Ê	Ë	Ì	Í	Î	Ï
B0	à	á	â	ã	ä	å	æ	ç	è	é	ê	ë	ì	í	î	ï
C0	Ā	Ā	Ā	Ā	Ā	Ā	Ā	Ā	Ā	Ā	Ā	Ā	Ā	Ā	Ā	Ā
D0	Ð	Ñ	Ō	Ō	Ō	Ō	Ō	×	Ø	Ú	Ú	Ú	Ú	Ú	Ú	β
E0	ā	á	â	ã	ä	å	æ	ç	è	é	ê	ë	ì	í	î	ï
F0	đ	ñ	ō	ō	ō	ō	÷	ø	ú	ú	ú	ú	ú	ú	ú	'

NE12x16 M	_ ABCabc
NE12x16a M	_ ABCabc
NE12x16b M	_ ABCabc
NE12x16o P	_ ABCabc
NE12x16p P	_ ABCabc
NE12x16q P	_ ABCabc
NE14x16 M	_ A B C a b c
NE14x16o P	_ ABCabc
NE15x16 M	_ A B C a b c
NE15x16o P	_ ABCabc
NE18x24 M	_ ABCabc
NE18x24o P	_ ABCabc

NE19x23 M	_ А В С а b c
NE19x23o P	_ ABCabc
NE20x23 M	_ А В С а b c
NE20x23o P	_ ABCabc
NE24x32 M	_ ABCabc
NE24x32o P	_ ABCabc

I-5-Cyr Cyrillic

	0 1 2 3 4 5 6 7 8 9 А В С D E F
А0	Ё Ъ Ѓ Є S I Ї Ј Љ Њ Ћ К – Ў Ц
В0	А Б В Г Д Е Ж З И Й К Л М Н О П
С0	Р С Т У Ф Х Ц Ч Ш Щ Ъ Ы Ь Э Ю Я
Д0	а б в г д е ж з и й к л м н о п
Е0	р с т у ф х ц ч ш щ ъ ы ь э ю я
Ғ0	Ё Ъ Ѓ Є S I Ї Ј Љ Њ Ћ К Š Ÿ ю ц

Су6x8 M	_ АБВАБВ
Су8x8 M	_ АБВАБВ
Су8x8Fa M	_ АБВАБВ
Су8x15Th M	_ АБВАБВ
Су8x16 M	_ АБВАБВ
Су8x16a M	_ АБВАБВ
Су12x16 M	_ АБВАБВ
Су12x16a M	_ АБВАБВ
Су12x16b M	_ АБВАБВ
Су12x16o M	_ АБВАБВ
Су12x16p P	_ АБВАБВ
Су12x16q P	_ АБВАБВ
Су14x16 M	_ А Б В а б в
Су14x16o P	_ АБВАБВ
Су15x16 M	_ А Б В а б в
Су15x16o P	_ АБВАБВ
Су18x24 M	_ АБВАБВ
Су18x24o P	_ АБВАБВ
Су19x23 M	_ А Б В а б в
Су19x23o P	_ АБВАБВ
Су20x23 M	_ А Б В а б в
Су20x23o P	_ АБВАБВ

Cy24x32 M

АБВаБв

Cy24x32o P

АБВаБв

I-6-Arb Arabic.

	0	1	2	3	4	5	6	7	8	9	A	B	C	D	E	F
AO					ٴ								ء	-		
BO													؛		؟	
CO				ء	آ	أ	ؤ	إ	ئ	ب	ت	ث	ج	ح	خ	د
DO				ذ	ر	ز	س	ش	ص	ض	ط	ظ	ع	غ		
EO				ف	ق	ك	ل	م	ن	ه	و	ي				
FO																

Ab8x16a M

ةب ائى اءؤ

Ab12x16 M

ةب اء اءؤ

Ab12x16a M

ةب ائ اءؤ

Ab12x16b M

ةب اء اءؤ

Ab12x16o P

ةب اء اءؤ

Ab12x16p P

ةب ائ اءؤ

Ab12x16q P

ةب ائ اءؤ

Ab14x16 M

ةب اء اءؤ

Ab14x16o P

ةب ائ اءؤ

Ab15x16 M

ةب اء اءؤ

Ab15x16o P

ةب ائ اءؤ

Ab18x24 M

ةب ائ اءؤ

Ab18x24o P

ةب ائ اءؤ

Ab19x23 M

ةب اء اءؤ

Ab19x23o P

ةب ائ اءؤ

Ab20x23 M

ةب اء اءؤ

Ab20x23o P

ةب ائ اءؤ

Ab24x32 M

ةب اء اءؤ

Ab24x32o P

ةب ائ اءؤ

I-7-Gre Greek.

0 1 2 3 4 5 6 7 8 9 A B C D E F
 A0 ' ' € € ; § ¨ © « ¬ - ; -
 B0 ° ± ² ³ ´ µ · ¸ ¹ º » ¼ ½ ¾
 C0 Ā B Γ Δ Ε Ζ Η Θ Ι Κ Λ Μ Ν Ξ Ο
 D0 Π Ρ Σ Τ Υ Φ Χ Ψ Ω Ϊ Ϋ ά έ ή ί
 E0 Ū α β γ δ ε ζ η θ ι κ λ μ ν ξ ο
 F0 π ρ σ τ υ φ χ ψ ω ἶ ῦ ό ύ ώ

Gr6x8 M	_ ABΓαβγ
Gr8x8 M	_ ABΓαβγ
Gr8x8Fa M	_ ABΓαβγ
Gr8x15Th M	_ ABΓαβγ
Gr8x16 M	_ ABΓαβγ
Gr8x16a M	_ ABΓαβγ
Gr12x16 M	_ ABΓαβγ
Gr12x16a M	_ ABΓαβγ
Gr12x16b M	_ ABΓαβγ
Gr12x16o P	_ ABΓαβγ
Gr12x16p P	_ ABΓαβγ
Gr12x16q P	_ ABΓαβγ
Gr14x16 M	_ ABΓαβγ
Gr14x16o P	_ ABΓαβγ
Gr15x16 M	_ ABΓαβγ
Gr15x16o P	_ ABΓαβγ
Gr18x24 M	_ ABΓαβγ
Gr18x24o P	_ ABΓαβγ
Gr19x23 M	_ ABΓαβγ
Gr19x23o P	_ ABΓαβγ
Gr20x23 M	_ ABΓαβγ
Gr20x23o P	_ ABΓαβγ
Gr24x32 M	_ ABΓαβγ
Gr24x32o P	_ ABΓαβγ

I-8-Heb Hebrew.

0 1 2 3 4 5 6 7 8 9 A B C D E F
 A0 ì ç £ ¤ ¥ ¦ § ¨ © ª « ¬ ® ¯
 B0 ° ± ² ³ ´ µ ¶ · ¸ ¹ º » ¼ ½ ¾ ¿
 C0 À Á Â Ã Ä Å Æ Ç È É Ê Ë Ì Í Î Ï
 D0 Ð Ñ Ò Ó Ô Õ Ö × Ø Ù Ú Û Ü Ý Þ ß
 E0 à á â ã ä å æ ç è é ê ë ì í î ï
 F0 ð ñ ò ó ô õ ö × ø ù ú û ü ý þ ß

He6x10 M	והדגבא
He7x10 M	והדגבא
He7x10a M	והדגבא
He7x10b M	והדגבא
He8x15 M	והדגבא
He8x16a M	והדגבא
He12x16 M	והדגבא
He12x16a M	והדגבא
He12x16b M	והדגבא
He12x16o P	והדגבא
He12x16p P	והדגבא
He12x16q P	והדגבא
He14x16 M	והדגבא
He14x16o P	והדגבא
He15x16 M	והדגבא
He15x16o P	והדגבא
He18x24 M	והדגבא
He18x24o P	והדגבא
He19x30 M	והדגבא
He19x30o P	והדגבא
He20x30 M	והדגבא
He20x30o P	והדגבא
He24x32 M	והדגבא
He24x32o P	והדגבא

I-9-Tur Latin-5 Turkish.

	0	1	2	3	4	5	6	7	8	9	A	B	C	D	E	F
A0	ı	ç	£	¥	!	§	''	©	≡	«	¬	-	®	¯		
B0	◊	±	²	³	´	µ	¶	·	¹	º	»	¼	½	¾	¿	
C0	À	Á	Â	Ã	Ä	Å	Æ	Ç	È	É	Ê	Ë	Ì	Í	Î	Ï
D0	Ĝ	Ñ	Ò	Ó	Ô	Õ	Ö	×	Ø	Ù	Ú	Û	Ü	Ý	ß	
E0	à	á	â	ã	ä	å	æ	ç	è	é	ê	ë	ì	í	î	ï
F0	ğ	ñ	ò	ó	ô	õ	ö	÷	ø	ù	ú	û	ü	ı	ş	ÿ

Tu12x16 M	ABCabc
Tu12x16a M	ABCabc
Tu12x16b M	ABCabc
Tu12x16o P	ABCabc
Tu12x16p P	ABCabc
Tu12x16q P	ABCabc
Tu14x16 M	ABCabc
Tu14x16o P	ABCabc
Tu15x16 M	ABCabc
Tu15x16o P	ABCabc
Tu18x24 M	ABCabc
Tu18x24o P	ABCabc
Tu19x23 M	ABCabc
Tu19x23o P	ABCabc
Tu20x23 M	ABCabc
Tu20x23o P	ABCabc
Tu24x32 M	ABCabc
Tu24x32o P	ABCabc

I-10-Nor Latin-6 Nordic

	0	1	2	3	4	5	6	7	8	9	A	B	C	D	E	F
A0	Ā	Ē	Ĝ	Ī	Ĭ	Ķ	Š	Ł	Đ	Š	Ŧ	Ž	Ū	Ų		
B0	◊	ā	ē	ġ	ī	ĭ	ķ	ł	đ	š	ŧ	ž	ū	ų		
C0	Ā	Ā	Ā	Ā	Ā	Ā	Ā	Ā	Ā	Ā	Ā	Ā	Ā	Ā	Ā	Ā
D0	Đ	Ń	Ō	Ó	Ô	Õ	Ŭ	Ø	Ų	Ú	Û	Ü	Ý	Þ	ß	
E0	ā	á	â	ã	ä	å	æ	ı	č	é	ę	ë	í	î	ï	
F0	đ	ñ	ò	ó	ô	õ	ŭ	ø	ų	ú	û	ü	ý	þ	ÿ	

No12x16 M	ABCabc
No12x16o P	ABCabc

0 1 2 3 4 5 6 7 8 9 A B C D E F
 A0 " ç £ ¤ μ ¶ · ø 1 r » ¼ ½ ¾ æ
 B0 ° ± ² ³ ´ µ ¶ · ø 1 r » ¼ ½ ¾ æ
 C0 Ā Ī Ā Ć Ą Ą Ę Ę Ć Ę Ę Ę Ę Ę Ę Ę Ę
 D0 Š Ń Ń Ń Ń Ń Ń Ń Ń Ń Ń Ń Ń Ń Ń Ń Ń
 E0 š Ń Ń Ń Ń Ń Ń Ń Ń Ń Ń Ń Ń Ń Ń Ń Ń
 F0 Š Ń Ń Ń Ń Ń Ń Ń Ń Ń Ń Ń Ń Ń Ń Ń Ń

Ba14x16 M	_ A B C a b c
Ba14x16o P	_ ABCabc
Ba15x16 M	_ A B C a b c
Ba15x16o P	_ ABCabc
Ba18x24 M	_ ABCabc
Ba18x24o P	_ ABCabc
Ba19x23 M	_ A B C a b c
Ba19x23o P	_ ABCabc
Ba20x23 M	_ A B C a b c
Ba20x23o P	_ ABCabc
Ba24x32 M	_ ABCabc
Ba24x32o P	_ ABCabc

I-14-Cel Latin-8 Celtic

0 1 2 3 4 5 6 7 8 9 A B C D E F
 A0 ð ç £ Ć Ć Ć Ć Ć Ć Ć Ć Ć Ć Ć Ć Ć Ć Ć Ć
 B0 ° ± Ġ ġ μ ¶ · ù 1 ŵ » ÿ ŵ ŵ ž
 C0 Ā Ā Ā Ā Ā Ā Ā Ā Ā Ā Ā Ā Ā Ā Ā Ā Ā
 D0 Ŵ Ń Ń Ń Ń Ń Ń Ń Ń Ń Ń Ń Ń Ń Ń Ń Ń
 E0 à á â ã ä å æ ç è é ê ë ì í î ï
 F0 ŵ Ń Ń Ń Ń Ń Ń Ń Ń Ń Ń Ń Ń Ń Ń Ń Ń

Cl14x16 M	_ A B C a b c
Cl14x16o P	_ ABCabc
Cl15x16 M	_ A B C a b c
Cl15x16o P	_ ABCabc
Cl18x24 M	_ ABCabc
Cl18x24o P	_ ABCabc
Cl19x23 M	_ A B C a b c

CI19x23o P	ABCabc
CI20x23 M	ABCabc
CI20x23o P	ABCabc
CI24x32 M	ABCabc
CI24x32o P	ABCabc

I-15-Eu Latin-9 Euro

	0 1 2 3 4 5 6 7 8 9 A B C D E F
AO	ı ç € ¥ Š š © ≡ « ¬ - ® ¯
BO	° ± ² ³ Ž μ ¶ · ž ı 0 » œ œ Ÿ ž
CO	À Á Â Ã Ä Å Æ Ç È É Ê Ë Ì Í Î Ï
DO	Ð Ñ Ò Ó Ô Õ Ö × Ø Ù Ú Û Ü Ý Þ ß
EO	à á â ã ä å æ ç è é ê ë ì í î ï
FO	đ ñ ò ó ô õ ö ÷ ø ù ú û ü ý þ ÿ

Eu8x16a M	ABCabc
Eu12x16 M	ABCabc
Eu12x16a M	ABCabc
Eu12x16b M	ABCabc
Eu12x16o P	ABCabc
Eu12x16p P	ABCabc
Eu12x16q P	ABCabc
Eu14x16 M	ABCabc
Eu14x16o P	ABCabc
Eu15x16 M	ABCabc
Eu15x16o P	ABCabc
Eu18x24 M	ABCabc
Eu18x24o P	ABCabc
Eu19x23 M	ABCabc
Eu19x23o P	ABCabc
Eu20x23 M	ABCabc
Eu20x23o P	ABCabc
Eu24x32 M	ABCabc
Eu24x32o P	ABCabc

I-16-SEE Latin-10 SouthEast European

	0	1	2	3	4	5	6	7	8	9	A	B	C	D	E	F
A0	À	Á	Â	Ã	Ä	Å	Æ	Ç	È	É	Ê	Ë	Ì	Í	Î	Ï
B0	Ð	Ñ	Ò	Ó	Ô	Õ	Ö	Š	Ú	Û	Ü	Ý	Þ	ß		
C0	à	á	â	ã	ä	å	æ	ç	è	é	ê	ë	ì	í	î	ï
D0	đ	ñ	ò	ó	ô	õ	ö	š	ú	û	ü	ý	þ	ÿ		

EE14x16 M	ABCabc
EE14x16o P	ABCabc
EE15x16 M	ABCabc
EE15x16o P	ABCabc
EE18x24 M	ABCabc
EE18x24o P	ABCabc
EE19x23 M	ABCabc
EE19x23o P	ABCabc
EE20x23 M	ABCabc
EE20x23o P	ABCabc
EE24x32 M	ABCabc
EE24x32o P	ABCabc

Dos Characters and symbols as defined in the Dos codepage for Nordic countries. There are 256 characters and symbols in each font. The Do8x8Gr has slightly different graphic characters for improved pixel graphics. The Do8x14Ap has symbols belonging to the APL programming language.

The Do.... fonts all look like this:

Data format in the font library:

The dataformat used in all the files is the RAMTEX version 2 format. This format is used by both the RAMTEX LCD Drivers and the LCD Icon Editor. The format starts with a comment line used only by the LCD Icon Editor.

The LCD Icon Editor use one or more letters and numbers in the beginning of the file to identify the filetype, files with "C" code use Slash-Asterix-Character to be sure it is a valid datafile. If you want to generate datafiles yourself with a text editor be sure to include the header, if you plan to read the data with the LCD Icon Editor

The RAMTEX data formats:

A RAMTEX Black & White icon or a single element in a group look like this:

```
/*X 8 RAMTEX ver. 2 icon */
{{8, 8},{
0x0E, /* ....$$$ . */
0x19, /* ...$$..$ */
0x10, /* ...$... */
0x10, /* ...$... */
0x10, /* ...$... */
0x19, /* ...$$..$ */
0x0E, /* ....$$$ . */
0x00 /* ..... */
}}
```

Data in the LCD Icon Editor header:

The characters X 8 tells that it is a RAMTEX format with 1 element.

The element is contained in a structure sUnit:

```
#define BYTE unsigned char
#define MAXBYTE 48

typedef struct
{
    int cxPix;
    int cyPix;
} sHeader;

typedef struct
{
    sHeader sH;
    BYTE b[MAXBYTE];
} sUnit;
```

Each pixel is defined by 1 bit, the bytes are placed horizontally with Least Significant Bit to the left. The succession of the bytes is downwards in columns from left to right.

A small 7x8 font of 2 elements look like this:

```
/*Y 8 7 8 1 . Samp_ab[2]={ RAMTEX ver.2 group */
/* Put Your Comments Here */
{{7, 8},{
0x30, /* ..%%.... */
0x78, /* .%%%. . . */
}}
```

