

6PDUHU
7LPLQJ
6RDXLRQV

EndRun TECHNOLOGIES

3U FLV &IU ,, 7LPH DQG)UHTXHQF\ 5HIHUUHQFH

./M.

3U FLV & IU ,, 7LP H DQG) UHTXHQF\ 5HIHUUHQFH

8VHU·V ODQXD0

3UHIDFH

— π — p — $\frac{\pi}{2}$ — π — $\frac{\pi}{2}$ — p — $\frac{\pi}{2}$ — π — p

\$ERXW WKL V P DQXD0

—T / / / / / p / / / / / p p / / / / /
, QMURGXFWLRQ



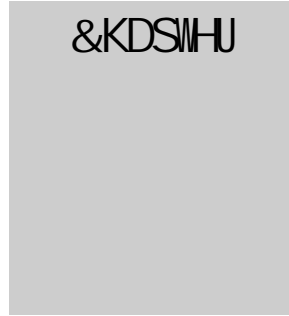
,QWURGXFWLRQ

I, II, p, v, () OM p

: KHUH WR 8VH ,W

II p I - M
&HOOXDU p
M 3&6, p p -
0- 0 M I v , II
p v p p

1 RWHV



%DVLF ,QVWD00DMLRQ

p
 II.
 p
 PP
 v
 p
 p
 v

&KHFNLQJ DOG ,GHQMLNLQJ WKH +DUGZ DUH

- p
- II (p # 30 -000 -... #30 3-000 -...)
- II , M (p # M30 -0000-000)
- I 3 0 (p # 0 0 -0003-000)
- - - -M I/ (p # 0 0 -000 -000)
- M / (p # 0 0 -000 -00)

3U FLV &IU ,, 3K\VLFD0 ' HVFULSMLRQ

)URQW 3DQH0

/RFN 6NDIXV /('

—T L

\$ODUP 6NDIXV /('

—T L p - p

8Q0DEH0HG /('

—T L p

5HDU 3DQH0

\$QMHQ0D -DFN

—T —T

336 -DFN

—T p v —TT L p

O336 -DFN

—T p v 0M —TT L -
p

56 &RQ0HFWRU

—T - M p v - 3
I/ II.

p p 56 3RUW 6LJ0D0 ' HILQWLRQV
p 3.

56 336 &RQ0HFWRU

—T p - M p v - 3
I/ II.

2SWLRQD0 56 / 336 p
p 3. 3RUW 6LJ0D0 ' HILQ
WLRQV

\$& 3RZHU , OSXW -DFN

—T I 3 0 p p

\$O &RGH -DFN

—T p v p p -

\$SSHQGL [' 6SHFLILFDWLRQV p M p

6HULO , 2 & RQMURO DQG 6WDWXV & RPP DQG V

```

                II p      pp            II. I
               II  v
              II
p            p            I/ p p
    
```

* HQHUDO 6HULO , 2 2SHUDMLRQ

```

        II p p           II
        (L-M, 0.0 )      (>)           II
        (L-M, 0.0 ) - L.   (L-J, 0.0 ) p
        (> L >).        ORW             II
                > L > p           II
                > L >
        II p
        > L >
        p p           p
        p           0;
        0, , .0 + , 0.0, 0 0
        p -p           II p
        II P           &RFN (PXOMLR
    
```

\$YDLODEOH &RPPDOGV

&200\$1')81&7,21
L	
L F	.000 +.000 , + v. p
L _T	, J Jp
L _T	Q
_T IM	p
_T IM H	p H
_T _T _T	v
_T _T _T >>	v _T ;
_T _T _T	0,0,0 v _T
_T _T	p v
_T _T >>	v _T p ;
_T _T	0,0,0 v _T
_T _T	0,0,0 v _T

<p> $\frac{1}{2}$ M M U </p>	<p> $\frac{1}{2}$ ($\frac{1}{2}$ $\frac{1}{2}$ p) $\frac{1}{2}$ p $\frac{1}{2}$ p , U </p>
<p> $\frac{1}{2}$ I $\frac{1}{2}$ </p>	<p> $\frac{1}{2}$ $\frac{1}{2}$ p p </p>
<p> $\frac{1}{2}$ $\frac{1}{2}$ </p>	<p> $\frac{1}{2}$ p $\frac{1}{2}$ p , I I , I I + , 3 , 3 I 3 . </p>
<p> $\frac{1}{2}$ M L L L </p>	<p> $\frac{1}{2}$ M v , </p>
<p> $\frac{1}{2}$ M L L L W </p>	<p> $\frac{1}{2}$ M v , W , </p>
<p> $\frac{1}{2}$ IM </p>	<p> $\frac{1}{2}$ v </p>
<p> $\frac{1}{2}$ M </p>	<p> $\frac{1}{2}$ </p>
<p> $\frac{1}{2}$ M P </p>	<p> $\frac{1}{2}$ P , L L , </p>
<p> $\frac{1}{2}$ L </p>	<p> $\frac{1}{2}$ LM </p>
<p> $\frac{1}{2}$ L </p>	<p> $\frac{1}{2}$ L p p $\frac{1}{2}$ v </p>

&RPPDQG ' HVFULSMLRQV

&\$/
 II p I
 p -0.000 +.000 p p v
 II p pp 3. 3.
 p p p M
 I p p + I
 pp II. I p v p v
 p p 3.3 p PP
 L v L

Usage:

;&\$/ &5! /)!
 II p ; &5! /)!
 ; &\$/ &5! /)!
 II p ; 2. &5! /)!

Factory Default Setting: 0

&+\$11(/6(7

M p
 p p L
 II p Jp J Jp

Usage:

;&+\$11(/6(7 &5! /)!
 II p ; 1257+ \$0(5, &\$ &5! /)!

;&+\$11(/6(7 . &5! /)!
II ,p ,; 2. &5! /)!

Factory Default Setting: NORTH AMERICA

&7,O(

Usage:

;&7,O(&5! /)!
II ,p ,; 2)) &5! /)!

;&7,O(21 &5! /)!
II ,p ,; 2. &5! /)!

Factory Default Setting:

' 6767\$57

Usage:

;' 6767\$57 &5! /)!
II ,p ,; &5! /)!

;' 6767\$57 &5! /)!
II ,p ,; 2. &5! /)!

Factory Default Setting: 0,0,0

' 676723

LM (M) p L M
p
0,0,0. ,
MMM IMM , MMM MMM M MMM MM

) / 767 \$ 7

II.

-T / - - - - - p - - - - -
 -T / - - - - - p - - - - -
 L ML
 p - - - - -

	3			0
0	L		-T	v -
			I p	L LL
3				

v - - - - -
 -T / - - - - -
 (000) -T (0000)
 M M M M M M M M M & & - &
 M M M M M M M M & -

—T / p
p
L
—T / L p
p
p
p
p
p
p
p
p
L
—T / L p (LL)
—T / M M M M M

Usage:

/(3 &5! /)!
 II ,p ,: ; v
 p
 /
 II ,p ,: ; /

Factory Default Setting: /

/(3

L M p p
 v p p
 p p p M I p
 p p p p
 I p p
 (I) p I p p
 30 3 p p
 p p L p p
 p p p p I p p
 p p

Usage:

/(3 &5! /)!
 II ,p ,: ; &5! /)!
 /(\$3
 II ,p ,: ; 2.

Factory Default Setting: 0,0

/2

p L M L LM (M).
 30 + 30.
 00 30. v v L

Usage:

$$\frac{1}{2} \text{ } \&5! \text{ } /)!$$

$$\text{II } \text{ } \text{p} \text{ } ; \text{ } \&5! \text{ } /)!$$

$$\frac{1}{2} \text{ } \&5! \text{ } /)!$$

$$\text{II } \text{ } \text{p} \text{ } ; \text{ } 2. \text{ } \&5! \text{ } /)!$$

Factory Default Setting: +0.00

26&7<3(

Usage:

$$\frac{1}{26&7<3(\text{ } \&5! \text{ } /)!$$

$$\text{II } \text{ } \text{p} \text{ } ; \text{ } 7& ; 2 \text{ } \&5! \text{ } /)!$$

$$\frac{1}{\text{II } \text{ } \text{p} \text{ } ; \text{ } /$$

Factory Default Setting: p

3257

$$\frac{1}{\text{I/ } \text{p} \text{ } \text{L}}$$

$$\text{II. } \text{p}$$

$$\text{p } \text{p } \text{p } ;$$

$$00, \text{ } 00, 3 \text{ } 00, \text{ } 00$$

$$(\text{ } \text{ }), (\text{ } \text{ }) (\text{ } \text{ })$$

Usage:

$$\frac{1}{3257 \text{ } \&5! \text{ } /)!$$

$$\text{II } \text{ } \text{p} \text{ } ; \text{ } 1 \text{ } \&5! \text{ } /)!$$

$$\frac{1}{3257 \text{ } \text{R} \text{ } \&5! \text{ } /)!$$

$$\text{II } \text{ } \text{p} \text{ } ; \text{ } 2. \text{ } \&5! \text{ } /)!$$

Factory Default Setting: 00, , ,

336: , ' 7+

└─┘ /
└─┘ v (00 ,, 00 ,, ,, 0 ,,). p p /

Usage:

i
II ,p : 336: , ' 7+ &5! /)!
PV &5! /)!
i
II ,p : 336: , ' 7+ PV &5! /)!
2. &5! /)!

Factory Default Setting:

5(\$&48,5(

└─┘ /
└─┘ v p /

Usage:

i
II ,p : /
5(\$&48,5(&5! /)!
II ,p : 2. &5! /)!

Factory Default Setting:

5(6(7

└─┘ /
└─┘ v p M I /

Usage:

i
II ,p : /
5(6(7 &5! /)!
II ,p : 2. &5! /)!

Factory Default Setting:

5(63O2' (

└─┘ /
└─┘ v L I /
└─┘ p I
└─┘ p

Præcis Cfr II User's Manual

... (L ...), L ... (L ...), ... (L ...), ... (L ...), L ...
(L ...).

... I (M ...), ... I (...), ... I (...).

... , 0 ... III ~~MM~~

&ORFN (PXODMLRQ ORGHV

II
p

121(

M
I
p

T YYYY DDD HH:MM:SS zZZ m<CR><LF>

M (M)
> +/- 0
+/- 0
+/-
+/- 00

YYYY

MM

, + p
M
M
L L
L L

6SHFWDFRP

0
>
7KH

WLPH PRGH LV DOZDV 87& LQ WKLW HPXODMLRQ PRGH;

&5! /)!4 ' ' ++ 00 66 7=]] &5! /)!

(p)
,
,

56 3RUW 6LJQD0 ' HILOQLRQV

' % O 3LQ	6LJQD0 1 DPH
3	/
	v ()
	-T ()
	/
	/
	/
	/
	/

7UDQVPLW' DWD 7;

v II.

5HFHLYH' DWD 5;

v p

*URXQG

v II. p pp

&RPSDULVRQ RI 3UDHFLV &IU 3UDHFLV &IU ,,

-T p v M^p / Jp p p
 II. p
 -T M M II I v p
 v p Jp M
 -T / p v - 3 p p
 -T v p v -T p - 3 p
 -T L Jp p " "
 p L J
 -T -T J J -T M -T M M J -T M M -T M M^M

1 RWHV

... P ... P ...
I / M M / M / M

7LPH &RGH) RUP DMW

II RSWRODO p v p
p M p
()
. I I
p v
p v p M p M p M p M p M p M p

,(((%W' HIQWRO

%W 3RVWRO %W' HIQWRO ([SODQWRO

6WDQGDUG)UHTXHQF\ 2XWSXW (p .);

- O336 L, v 0 .
\$FFXUDF\ -TT 0-11

1 RWHV
