

# **MDIA3000**

8]gWci fgY 'UbX 'Dfca chcb

HYfa "Hk c"#"&\$&%

# 7ci fgY<sup>.</sup>Cj Yfj ]Yk

## 7ci fgY'8YW]`g

7 fYX]hDc]bhg \*

Gi a a UfmcZh\Y'7ci fgY

Gi VYWh5fYU. ? WW[S

DfcZ/gg]cbU``Wca a i b]\Wlncfg`UfY`g\Ud]b[ `ci f`X]g\\ci fgYg`U```h\Y'h]a Y"`H\]g`\\ci fgY`\Y`dg`mci `i bXYfgH\bX\ck 'h\YgY`dfcZ/gg]cbU`g`k cf\_'hc`\\Ub[Y'h\Y'k Umg`k Y'H\\_\_'UVci hih\Y'k cf`X`Ufci bX'i g"`\\in]blfcXi \\gammag`mci `hc\\Y\\can a i b]\\Wlh]cb`UbX`a YX]U'hcc`g`a cghcZ\Yb`i gYX`k\Yb`\\Ub[]b[ `Yl ]gh]b[ `X]g\\ci fgYg`UbX`Vi ]`X]b[ bYk `cbYg"`8 fUk ]b[ `cb`h\Y'k cf\_'cZ\_YmX]g\\ci fgY`g\\c`Ufgž`]h'U`gc`cZ\Yfg`\\f]h\\U\``YbgYg`Zcf`UbU`mg]b[ X]g\\ci fgYgžYgdY\\]U``mcbYg`h\Uh'UfY`dUfhcZdfca ch]cbU``YZ\cfng`]b'di \Y`]\\f\Y\Uh]cbg`UbX`UXj Yfh]g]b[ "

#### 7 ci fgY @YUfb]b[ Ci hMca Yg

%" 5ddfU]qY WcbWdhq fY Uhlb[ hc X]qWci fqY UbX dfca chlcb"

&" 7 f]h]wu``mYj U`i UhY`X]gwci fgY`dfcXi Wh]cb`Uwh]j ]h]Yg`i g]b[ fY`Yj UbhX]gwci fgY!fY`UhYX`h\Ycf]Yg"

" 5 dd`mX]qWci fgY!fY`UhYX'h,Ycf]Yg'hc']a dfcj Y'X]qWci fgY'dfcXi Whob'UbX'hfUbqZcfa Uhcb'UWhj ]hYg"

#### HYUW ]b[ GlfUlY[]Ya

Gc'Ug'hc'Ybgi fY'UWfj Y'dUffjWjdUhjcbžh\]g'Wci fgY']g'XYg][bYX'hc'ZJWj]lUhY'Vch\'dfcV'Ya!VUgYX'UbX'dfUWfjWY!VUgYX''YUfb]b["'=h]g'HJi [\h']b'Xi U'acXY.'ZJWY!hc!ZJWY'UbX'cb']bY"

.

## 5ggYgga Ybh

## 5ggYgga YbhHUg\_g

5ggYgga Ybh'tUg_	K Y][\h	8iY'8UhY	Gh XYbh@YUfb]b[ Ci hWca Ygʻ5ggYggYX
FYZYW <b>j</b> cbg	) \$1	&%\$+#&\$&%`%&.\$\$`5A	%ž''
FYdcfh	&\$ı	\$+#\$+#&\$&%`%&.\$\$`5A	%ž <sup>*</sup> &
DfYgYblUljcb	' \$1	К YY_'%\$`fБi [i gh&'!`*Ł	&ž¨'

## 5ggYgga Ybh'8YHJ]`g

5ggYgga Ybh% FYZYWhjcbg

#### 8YHJ]`g.

.

#### 5XX]h]cbU`XYHJ]`g.

 $: i ```XYHJ]`g``UfY``Uj \ U]`UV`Y``cb``h\Y``UggYgga \ Ybh`HUg\_`cbY``dU[ \ Y``cb``h\Y``A \ ccX`Y``Wci \ fgY`g]hY'''$ 

#### 5ggYgga Ybh& FYdcfh

#### 8 YW] g.

±bX]j ]Xi U``rUg\_ž'‰\$\$`k cfXg. 'Yj U`i Urjcb'cZU'dfca crjcbU``Wca a i b]WUrjcb'

: YYXVUW<u></u> dfcj ]XYX j ]U @A G

#### 5XX]h]cbU``XYhJ]`g.

 $: i ```XYKU]`g``UfY``Uj``UJ``UV`Y``cb``f\\Y``UggYgga Ybfif\Ug_``fk c``dU[Y``cb``f\\Y``A ccX`Y``Wc`i fgY``g]fY'''$ 

5ggYgga Ybh' . DfYgYbhJh]cb

GHJfhXUhY. "GHJfh]b[ "k ]h\ "h\ Y "Z]fgh'h hcf]U`"]b "k YY\_"%\$

8YHJ]`g.

; fci d'fcZh\fYYŁYj U'i UhYg'U'dfca chjcbU`'Wca a i b]\WJhjcb"

Ghi XYbhgʻk ]``VY`]bX]j ]Xi U``mʻUggYggYXʻcbʻh\Y]fʻWcbhf]Vi hjcbgʻhcʻh\Y`[ fci dʻci hdi hžʻUbXʻgcʻUbʻ]bX]j ]Xi U` a Uf\_`]gʻUk UfXYXʻZcfʻh\]gʻUggYgga Ybh'

5ddfcl ]a UhY`m, '!'- 'a ]bi hYg

: YYXVUW\_'dfcj ]XYX'j ]U'@A G

H\]g`]g`h\Y`ZbU``UggYgga YbhihUg\_

•

#### 5XX]h]cbU`XYhU]`g.

 $: i ```XYHJ]`g``UfY``Uj U]`UV`Y``cb``fh\Y``UggYgga YbfiHJg_``fh\fYY``dU[Y``cb``fh\Y``A ccX`Y``Wci fgY``g]fY'''$ 

•

.

## 5 https://bxubwww.Fyei ]fya Ybhg

Ghi XYbhgʻUfYʻghfcb[`miYbWci fU[YX'hcʻUhhYbX'U```WUggYgʻUbX'fYj ]Yk '`YWhi fY`fYWcfX]b[g"

## 7ci fgY'GWXYXi `Y

### J]Yk 'WUgg'ha YhUV'Y

## H]a YtUV`Y

8 UhY	Hmd Y	7 cbhYbh	
K YY_'%'' %'A Um!'('>i bY	Hcd]W	D5FH'=': I B85A 9BH5@G  I WW] a` Wfab[U, ;` fdaVgUf[a` fa V[eUagdeWS` V bda_af[a`  b'k YY_'cbYž'k Y'k]```gYhh\Y'gWbY'Vm`cc_]b['Uh gca Y'cZh\Y'_YmY`Ya Ybhg'cZh\Y'Wti fgYž']bWi X]b[ dfca ch]cbU`'W hi fYgž']bXi ghf]Ygž'UbX']bhYfa YX]Uf]Ygž'Ug'k Y```Ug'X]gWti fgY'UbX'X]gWti fgY'UbU`mg]g''K Y k]```U`gc'Wtbg]XYfž'cZWti fgYž'h\Y``]b_'VYhk YYb dfca ch]cb'UbX'X]gWti fgY''	
K YY_'&.'+'>i bY'!'%% >i bY	Hcd]W	.  I WW] fi a fab[U, 5 df[US^V[eUagdeWS`S'ke[e S`V bda_af[a` .  \data k YY_'k cžk Y'k ]``'kU_Y'U'XYkU]`YX'`cc_'Uh'Wf]h]WU` X]gWci fgY'UbU`mg]g']b'fY`Uh]cb'hc'dfca ch]cb"	
K YY_'' .'%) '>i bY'!'% >i bY	Hcd]W	I WW] fZdWWfab[U, ? g/f[_ aVS^Ud[f[US^V[eUagdeW S`Ske[e S`V bda_ af[a` K YY_'h\fYY'Vi]'Xg'cb'k YY_'hk c'Vm'ZcW g]b[ 'cb a i `h]a cXU`'Wf]h]WU`'X]gWci fgY'UbU`mg]g']b'hYfa g'cZ dfca ch]cb"	
K YY_'(.'&%'>i bY'!'&) >i bY	Hcd]W	D5FH'=: GGI 9G  .  I WW] Xagdfab[U, 5[h[{fk [ V[eUagdeWS`V bda_af[a` -b`k YY_Zci fžk Y`k]``'hUW_Y'h\Y']ggi Y`cZ]bW[j]`]hm]b X]gWci fgY`UbX`dfca ch]cb`Vm`cc_]b[`Uhh\Y`_Ym UgdYWg`cZW[j]`]hmUbX`dc`]hYbYgg"	

K YY_`).`&, `>i bY`!`&`>i `m	Hcd]W	.  I WW, X[hWfab[U, 7fZ[Ue [`V[eUagdeWS`V bda_af[a` .  b`k YY_Z]j Yžk Y`k ]``WcbZfcbh'th Y`]ggi Y`cZi bYth]WU` X]gWci fgY`UbX`dfca ch]cb`VmYI d`cf]b[ `X]ZZYfYbh UddfcUWXYg`tc`Yth]Wgž]bWi X]b[ `X]gWci fgY`Yth]Wg" .
K YY_'*.') '>i `m!'- '>i `m		K_YY_`g]I_`]g`h\Y`i_b]j_Yfg]hnIk_]XY`': `YI_'K_YY <b>_'</b> "
K YY_`+.`%&`>i `m`!`%*`>i `m	Hcd]W	I WW] eWhW fab[U, DWSea` [ V[eUagdeWS`V bda_af[a`   V[eUagdeWS`V bda_af[a`   V[eUagdeWS`V   V]   V] y y y y y y y y y y y y y y y y y y
K YY_', . '%- '>i `m! '&' '>i `m	Hcd]W	I WW] W[YZf fab[U, 5g/fgc6^Ua_bWfW UW[ V[eUagceW S`V bca_af[a`
K YY_''&*'>i `m!'' \$'>i `m	Hcd]W	I WM] `[ Wfab[U, >W\$VWdeZ[b [ V[eUagdeWS`V bda_af[a`
K YY_'%\$.'&'5i [i gh!'* 5i [i gh	Hcd]W	. I WW] fW fab[U, 5a` U'ge[a`

## FYgci fWfg

## DfYgWf]VYX F Ygci fWYg

 $\label{eq:hambers} \text{H\Y'dfYgWf]VYX'fYgci fW'g'UfY'dfcj ]XYX'cb'h\Y'A ccX`Y'Wci fgY'g]hY'''fHc'UWW'gg'h\Y'g]hYž\YUX'hc. \\ \\ \text{hdg.} \textit{\#a ccX`Y''hY'h'i bgk "YXi "Ui }\textit{\#c}. \\$ 

### FYWca a YbXYX FYgci fWYg

 $: cf`XYHJ]`g`UVci hih\Y`fYWca a YbXYX`fYgci fWfgž'd`YUgY`gYY`h\Y`Wci fgY`A ccX`Y`g]hY''$ 

### 7 ci fgY '9j U'i Uh]cb 'UbX '8 Yj Y`cda Ybh

 $: YYXVUW\underline{\ '}k]``VY'Wc``YVWYX'VYZcfY\check{z}Xif]b[\ 'UbX'UZhYf'h,Y'hf]a\ YghYf''K\ Y'dUm'WUfYZ\ ``UhhYbh]cb'!'UbX'UWhcb''!$ 

# Gi Va ]gg]cb cZ5ggYgga YbhHUg\_g Hi fb]h]b Gi Va ]gg]cb

-Zmci 'YbWci bhYf'U'dfcV`Ya 'k \Yb'UhhYa dh]b[ 'hc'gi Va ]hmci f'Ugg][ ba Ybhh\fci [ \'Hi fb]h]bž'd`YUgY hY`Yd\cbY'9I hYfbU``Gi ddcfhcb'-',)'''' %cf'Ya U]`'h\Ya 'cb'YI hYfbU`hY`hgi ddcfh4 i bgk "YXi "Ui '"'Gi ddcfh

## 5 WUXYa ]W<cbYghmUbX D`U[]Uf]ga

D`U[]Uf]ga `]g`i g]b[ 'h\Y`k cfXg`cf`]XYUg`cZch\Yfg`UbX`dfYgYbh]b[ 'h\Ya `Ug`mci f`ck b"`±hWJb`hU\_Y`a Ubm Zcfa gžZfca `XY`]VYfUhY`W\YUh]b[ 'hc`UWW]XYbhJ``mWcdm]b[ 'Zfca `U`gci fWY`k ]h\ci hUW\_bck `YX[ Ya Ybh'

IBGK [fcidg'd'U[]Uf]ga ]bhc'h\Y'Zc``ck]b[ 'WUhY[cf]Yg.

 $7 \text{ cdm}b[...i g]b[...h\Y.gUa Y.cf.j Yfmig]a] \Uf'k cfXg'hc'h\Y.cf][]bU''hYl h'cf']XYU'k]h\ci h'U\V_bck `YX[]b[...h\Y.cf][]bU''hYl h'cf']XYU'k]h'cf']$ 

- i bXYfgHUbX'mci f'f][\hg'UbX'fYgdcbg]V]`]h]Yg'Ug'U'gh XYbhUhI BGK
   VY'Uk UfY'cZd`U[]Uf]ga ž'Wcdmf][\hz'I BGK 'Gh XYbh7cXY'cZ7cbXi WhUbX'5VWWdhUV`Y'I gY'cZ IBGK =7 HF Ygci fWrg Dc`]Wh