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Springer

Taylor & Francis

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CNKI

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: 1900-01-01 2020-08-10

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4	20150450116_ BI M	4.3% 205
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5	Phantom 4 RTK	3.9% 186
	- http://www.elecfans.com	- 2018
6	Phantom 4 RTK 23999	3.9% 186
	- http://uav.huanqiu.com	- 2018

7			3.8%	179
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9			1.0%	47
10			0.6%	31

Phantom 4 RTK

() Phantom 4 RTK

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7

7 / /

.....1
Phantom4 RTK.....1
1.1
2.1
3.2
4. GS RTK APP.....2
5. -2
.....2
1. :2
2. :3
.....5
.....6
1.6
2. P4RTK7
GSD7
.....8
3.8
4.8
5.9
.....9

Phantom 4 RTK

Phantom4 RTK

P4RTK

1

1.

2

DRK2 GNSS 4G Wifi NTRP(RT)

NTRP RTK/CORS RT v3 RTK

PPK

3

1 2000 CMOS

Phantom 4 RTK 100 (GSD) 2 74

4. GS RTK APP

GS RTK App

5. -

Phantom 4 RTK App

1.

KML

KML

(2D 3D)

RTK

2

POS

(1)

(2) pos

pos

2

pos

(3)

3

.jpg pos

pos

CSV

pos

4 () pos xls

5 pos

RTK

POS

PPK

PenPPK

PPK

PenPPK

Pi x4D CC PhotoScan

DCM DSM OSGB

Pi x4D CC PhotoScan

DCM DSM

OSGB

DLG

EPS DLG

2D 0.2-0.4 (-90°) 120-150 (80/70)

15-20

RTK 8002 8003 RTK CORS
CORS, PPK CORS RTK

1.

:" 1/3 " ?
P4RTK 5472X3648 2000 ()

P4RTK 6

APP 1/8000 8000 8 8") P4RTK 8 1/8000 ()
5 5

:"

V=10 / GSD=0.05 S>600 1/3 " " 600
P4RTK 640 : 1/640 V=6 GSD=0.05 S>360
P4RTK 400
GSD

2 P4RTK GSD

GSD=0.0493m 8m/s 36.5 GSD() 180m
11m/s ()
1/S=669.37 1/S=800 50m 180-50=130m
GSD=0.0356m 1/S=926.96 1/S=1000

ISO 100 0 3.5 (3.5)
2.8
3.5 ()
ISO 200

3.

4.

Lightroom PhotoShop P4RTK ISO 400 -1.7
5.

Phantom 4 RTK

[1] [J]. , 2018(09): 161-164.
[2] [J]. , 2017(06): 34-36+43.
[3] [J]. 2016(15); 8-9+106
[4] GPS [J] , 2019(08): 61-62+68
[5] [J]. , 2019, 9(02): 74-75.
[6] [J] , 2018(09): 161-164.
[7] 1[J]. , 2017(06): 34-36+43
[8] [J]. , 2017(13): 30-33.

1. Phantom4 RTK
P4RTK

2.

3. RTK , PPK

3.

1 2000 CMS

4.

5.

1.

2.

3.

4.

5.


6.

7.



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